Course Specifications

Oral Maxillofacial Department

Table of Content

Course Specifications

1-Course Information		
Code: AHN 101	Course Title: **Anatomy of the Head & Neck**	First Part- Semester 1
Specialty:	Number of Units in the Course: 1 Theoretical 2 Practical	
2-Course Goals (overall aim):	- Acquiring knowledge about anatomy of head and neck including osteology, muscles, cranial nerves 5, 7, 8, 9, 11, 12, blood circulation, lymphatic system, pituitary gland, alveolar process and teeth. - Applying the knowledge of head and neck regional anatomy into clinical practice.	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** a1- identify the bony structures of the head and neck area. a2- describe the masticatory and facial muscles a3- describe the pituitary gland. a4- describe the temporomandibular joint. a5- describe the nerve and blood supply of the mouth and all related structures. a6- describe the lymphatic system of head and neck. a7- recognize normal anatomical features of the oral cavity	
b-Intellectual Skills:	**By the end of the course every student will be able to:** b1- discuss the osteology of the skull b2- integrate knowledge of anatomy head and neck into clinical practice.	
c-Professional and Practical Skills:	**By the end of the course every student will be able to:** c1- demonstrate the anatomical features of oral and maxillofacial structures.	

	c2- apply the basic knowledge of anatomy of head & neck in clinical practice.
d-General and Transferable Skills:	**By the end of the course every student will be able to:** d1- work effectively as a part of a team to collect data and to prepare essay and presentations. d2- have the ability of self-learning and continuous professional education.
e-Course contribution to program ILOs	

Course ILOs	Program ILOs
Knowledge and understanding	A1
Intellectual skills	B2
Professional skills	C4-C7
General and transferrable skills	D4, D5

4-Course Content:

- Innervation of face and scalp
- Muscles of head and neck
- Blood supply of head and neck
- Lymph supply of head and neck
- Pituitary gland and facial nerve
- Anterior triangle
- Submandibular triangle
- Temporal and infratemporal spaces
- Temporomandibular joint

5-Teaching and Learning Methods:

5.1- Lectures
5.2- Practical lab sessions (on dissected cadavers and dry bones)
5.3- Assignments

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	Practical sessions	Written exams	Oral exams	Practical exams	Quizzes / assignments	Other
a1	√	√	√	√	√	√	
a2	√	√	√	√	√	√	
a3	√	√	√	√	√	√	
a4	√	√	√	√	√	√	
a5	√	√	√	√	√	√	
a6	√	√	√	√	√	√	
a7	√	√	√	√	√	√	
b1	√	√	√	√	√	√	
b2	√	√	√	√	√	√	
c1	√	√	√	√	√	√	
c2		√	√	√	√	√	
d1						√	

d2	√
A-Methods Used:	-**Practical examination** to assess practical skills. -**Written & oral examination** to assess the knowledge and understanding as well as the intellectual skills.
B-Timing of Assessment:	- Midterm exam. ..... 6th to 7th weeks - Practical exam..... 11th to 12th weeks - Written & oral exam ..... 14th to 15th weeks
C-Distribution of Scores:	Written Examination 40% Practical Examination 20% Oral Examination 10% Semester work 30 % **Total** **100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	Clinical Anatomy for Students, Richard Snell, 9th edition, 2012
B-Recommended Books:	Gray's Anatomy for Students, Drake, et al, 4th edition, 2019.
C- Periodicals, websites… etc.	http://www.anatomy.wisc.edu/courses/gross/index.html http://mywebpages.comcast.net/wnor/homepage.htm

Course Coordinator: **Head of Department:**

Date of approval:

Course Specifications

1-Course Information		
Code: ORB101	Course Title: **Oral Biology**	First Part- Semester 1
Specialty:	Number of Units in the Course: 1 Theoretical 2 Practical	
2-Course Goals (overall aim):	• Explaining the development of the oral cavity and related structures • Describe and illustrate the normal macroscopic, microscopic and molecular features of the oral mucosa and periodontium. • Deducing the relationships between structure and functions of the soft and hard tissue of the oral – facial complex • Explaining the application of all the above on clinical dentistry	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** a1-describe the embryological development and structure of the face, the jaws, the mouth, and its contents a2- describe the structures/organs associated with the normal functions of the oral cavity a3- describe the submicroscopic and microscopic events in tooth formation. a4- recognize features of oral mucosa, bone and periodontium.	
b-Intellectual Skills:	**By the end of the course every student will be able to:** b1- relate growth and development of stomatognathic system to clinical practice. b2. differentiate the normal behavior of tooth eruption and shedding of deciduous teeth from the possible occurrence of malocclusion b3- discuss development, structure and clinical behavior of the teeth, tooth pulp, periodontium and oral mucous membrane. b4- integrate properties and functions of periodontium, oral mucosa and bone.	

c-Professional and Practical Skills:	**By the end of the course every student will be able to:** c.1. examine slides and point out various structures of oral and dental tissues under microscope.
d-General and Transferable Skills:	**By the end of the course every student will be able to:** d1. be competent at the use of information technology as means of communication in data collection for self-directed learning. d2- appreciate the importance of lifelong learning and show strong commitment to it.
e-Course contribution to program ILOs	Course ILOs — Program ILOs Knowledge and understanding — A1 Intellectual skills — B2 Professional skills — C5, C6, C9 General and transferrable skills — D7, D8
4-Course Content:	• Embryology of the Head, Face, and Oral Cavity • Development of the Tooth and Its Supporting Tissues • Tooth dentin, cementum and pulp • Bone • Anatomy, Structure, and Function of the Periodontium • Bone • Oral mucosa
5-Teaching and Learning Methods:	5.1-Lectures using white board marker and data show 5.2-Practical classes using light microscope, white board marker and data show.

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	Practical sessions	Written exams	Oral exams	Practical exams	Quizzes/ assignments	Other
a1	√	√	√	√		√	
a2	√	√	√	√		√	
a3	√	√	√	√		√	
a4	√	√	√	√		√	
b1	√	√	√	√		√	
b2	√	√	√	√		√	
b3	√	√	√	√		√	
b4	√	√	√	√		√	
c1		√			√	√	
d1						√	
d2						√	

A-Methods Used:	• Assignments/ presentations

	• Final written and oral Examination
B-Timing of Assessment:	- Midterm exam. ..... 6th to 7th weeks - Practical exam..... 11th to 12th weeks - Written & Oral exam ..... 14th to 15th weeks
C-Distribution of Scores:	Written Examination 40% Practical Examination 20% Oral Examination 10% Semester work 30 % **Total** **100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	•*Ten Cate's Oral Histology, 9th edition, 2018
B-Recommended Books:	•Berkovitz: "Oral Anatomy, Histology and Embryology". 5th Ed. 2015 •Anastasios K. Markopoulos Handbook of Oral Physiology and Oral Biology, 2018 •Orban's Oral Histology &Embryology, 14th edition, 2015
C- Periodicals, websites… etc.	www.ncbi.nlm.nih.gov.gov/pubmed www.sciencedirect.com

Course Coordinator:

Head of Department: **Date of approval:**

Course Specifications

1-Course Information		
Code: ORB101	**Course Title**: **Oral &Maxillofacial Pathology Pathology I**	First Part- Semester 1
Specialty:	Number of Units in the Course: 2 Theoretical 2 Practical	
2-Course Goals (overall aim):	1. Acquiring knowledge about the etiology and pathogenesis of diseases and conditions occurring in the oral and maxillofacial region. 2. Recognizing and describing the pertinent clinical signs and symptoms, and radiological features of these diseases and conditions 3. Describing the basic histological features of these diseases and conditions.	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** a.1. recognize the different developmental abnormalities of the hard and soft oral tissue. a.2. list causes, types, mechanisms, and theories of dental caries. a.3. identify mechanism, pathogenesis and sequela of pulp and periapical lesions. a.4.recognize types of osteomyelitis and their radiographic appearance and microscopic structure. a.5. classify cystic lesions and describe them on radiographs. a.6. describe different bone diseases.	
b-Intellectual Skills:	**By the end of the course every student will be able to:** b.1. compare between different oral pathological lesions. b.2. conclude the prognosis of the different oral diseases based on sound biological principles. b.3. differentiate between the most important oral lesions using the light microscope. b.4. distinguish between the lesions of odontogenic and non-odontogenic origin. b5. correlate between histological, radiological and clinical features of oral pathological lesions.	
c-Professional and Practical Skills:	**By the end of the course every student will be able to:** c.1. examine slides and point out various diseases under microscope . c.2. diagnose various developmental abnormalities of oral soft and hard dental tissues.	

	c3- employ modern approaches in diagnosis.
d-General and Transferable Skills:	**By the end of the course every student will be able to:** d1- work in a team. d2- develop presentation skills d3- appreciate the importance of lifelong learning and show strong commitment to it**.** d4- use the sources of biomedical information to remain current with advances in knowledge and practice.
e-Course contribution to program ILOs	

Course ILOs	Program ILOs
Knowledge and understanding	A1.A5
Intellectual skills	B2, B3
Professional skills	C1, C6
General and transferrable skills	D2,D7

4-Course Content:	• Developmental disorders of the oral and maxillofacial region • Abnormalities of Teeth • Caries • Bone Pathology • Inflammatory jaw lesions
5-Teaching and Learning Methods:	**5.1-** Lectures to explain the underlying principles in which students are active participants **5.2-** Tutorial sessions to apply the underlying principles **5.3-** Practical sessions

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	Practical sessions	Written exams	Oral exams	Practical exams	Quizzes/ assignments	Other
a1	√	√	√	√		√	
a2	√	√	√	√		√	
a3	√	√	√	√		√	
a4	√	√	√	√		√	
a5	√	√	√	√		√	
a6	√	√	√	√		√	
b1	√	√	√	√		√	
b2	√	√	√	√		√	
b3	√	√	√	√		√	
b4	√	√	√	√			
b5	√	√	√	√			
c1		√			√	√	

c2	√		√	√
c3	√		√	√
d1				√
d2				√
d3	√			√
d4				√

A-Methods Used:	-**Practical examination** to assess practical skills. -**Written & oral examination** to assess the knowledge and understanding as well as the intellectual skills.
B-Timing of Assessment:	- Midterm exam. ..... 6th to 7th weeks - Practical exam..... 11th to 12th weeks - Written exam ..... 14th to 15th weeks
C-Distribution of Scores:	Written Examination 40% Practical Examination 20% Oral Examination 10% Semester work 30 % **Total** **100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	- Brad W. Neville: Oral and maxillofacial pathology. 4th edition - Shafer's textbook of oral pathology
B-Recommended Books:	* Cawson's essentials of oral pathology and oral medicine * Marx and Stern: "Oral and Maxillofacial Pathology" * Robbins: "Basic pathology" 7th Ed.
C- Periodicals, websites… etc.	www.ncbi.nlm.nih.gov.gov/pubmed www.sciencedirect.com

Course Coordinator: **Date of approval:**

Course Specifications

1-Course Information		
Code: ORR101	Course Title: **Dental Radiology I**	First Part- Semester 1
Specialty:	Number of Units in the Course: 2 Theoretical 2 Practical	
2-Course Goals (overall aim):	• Developing knowledge about the production of ionizing radiation and how images are recorded • Explaining the major principles of radiation biology • Institution of measures of protection from ionizing radiation to oneself, auxiliary, personnel as well as the patient • Producing radiographs of high diagnostic quality	

3-Intended Learning Outcomes (ILOs):	
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** a1-explain the interaction of radiation with matter a2-recognise the biological effects and measurement of radiation a3-describe the construction and composition of radiographic film a4- describe different intraoral and extraoral radiographic techniques. a5-identify relevant anatomical landmarks as seen on different radiographic views a6- explain techniques and processing errors
b-Intellectual Skills:	**By the end of the course every student will be able to:** b1- discuss the factors affecting the quality of x-rays b2- discuss the factors affecting the quality of x-ray images b3- compare between intraoral and extraoral radiographic techniques. b4- interpret radiographic appearance of panoramic radiography. b5- differentiate normal radiographic anatomy.
c-Professional and Practical Skills:	**By the end of the course every student will be able to:** c1-perform intra-oral and extra-oral radiographic techniques c2- apply infection control measures c3- apply measures of protection from ionizing radiation to oneself,

	auxiliary personnel as well as the patient
d-General and Transferable Skills:	**By the end of the course every student will be able to:** d1- work in a team. d2- appreciate the importance of lifelong learning and show strong commitment to it. d3- develop presentation skills. d4- use the sources of biomedical information to remain current with advances in knowledge and practice.
e-Course contribution to program ILOs	
4-Course Content:	**1. Physics of x-ray production** **2. The radiographic film** **3. Intra-oral radiographic techniques** **4. Extra-oral radiographic techniques** **5. Panoramic Radiography** **6. Film handling and processing** **7. Normal radiographic anatomy** **8. Biologic effects and Radiation protection** **9. Infection control in Maxillofacial Radiography**
5-Teaching and Learning Methods:	**5.1-** Lectures to explain the underlying principles in which students are active participants **5.2-**Weekly seminars/ tutorials to apply the underlying principles **5.3-** Practical sessions **5.4-** Assignments

Course ILOs	Program ILOs
Knowledge and understanding	A1, A5
Intellectual skills	B2, B3
Professional skills	C1, C9
General and transferrable skills	D2, D7,D8

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	Practical sessions	Written exams	Oral exams	Practical exams	Quizzes/ assignments	Other
a1	√	√	√	√		√	
a2	√	√	√	√		√	
a3	√	√	√	√		√	
a4	√	√	√	√		√	
a5	√	√	√	√		√	
a6	√	√	√	√		√	
b1	√	√	√	√		√	
b2	√	√	√	√		√	

b3	√	√	√	√		√
b4	√	√	√	√		√
b5	√	√	√	√		√
c1		√			√	√
c2		√			√	√
c3		√			√	√
d1						√
d2						√
d3						√
d4						√

A-Methods Used:	• Assignments/ presentations • Practical exam • Final written and oral Examination
B-Timing of Assessment:	- Midterm exam. ..... 6th to 7th weeks - Practical exam..... 11th to 12th weeks - Written & Oral exam ..... 14th to 15th weeks
C-Distribution of Scores:	Written Examination 40% Practical Examination 20% Oral Examination 10% Semester work 30 % **Total** **100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	-White and Pharoah Oral Radiology, Principles and Interpretation.8th edition
C- Periodicals, websites… etc.	-Pubmed -American Academy of Oral and Maxillofacial Radiology: http://www.aaomr.org/index.php http://ddsdx.uthscsa.edu/dig/digimage.html

Course Specifications

1-Course Information		
Code: BIS101	Course Title: Biostatistics	Academic Level: First Part- Semester 1
Specialty:	Number of Units in the Course: 1 Theoretical - Practical	
2-Course Goals (overall aim):	1. Recognizing the role and functions of statistics in dental research 2. Understanding basic Statistics for Health Research 3. Applying basic descriptive and inferential statistical methods to summarize and interpret bio-medical research data.	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** a1- recognize measures of association, statistical testing, sample size and power, and standardized rates a.2- describe the normal distribution curve. a.3- define means, standard deviation and standard error. a.4- describe student *t* test.	
b-Intellectual Skills:	**By the end of the course every student will be able to:** b.1- choose appropriate statistical tests b.2- differentiate between parametric and non-parametric tests b.3- analyze data.	
c-Professional and Practical Skills:	**By the end of the course every student will be able to:** c1- formulate and test a hypothesis by applying analytical statistics. c2- use a statistical software package, to analyze epidemiological data c3- critically review and interpret epidemiological information. c.4- handle numbers. c.5- present descriptive statistics. c.6- solve problems.	

	c.7- use statistical tests to separate real effects from the background variation.
d-General and Transferable Skills:	**By the end of the course every student will be able to:** d.1 apply principles of scientific research in dentistry d.2 competent at the use of information technology as means of communication in data collection for self-directed learning
e-Course contribution to program ILOs	

Course ILOs	Program ILOs
Knowledge and understanding	A1
Intellectual skills	B1, B2, B6
Professional skills	C10, C11
General and transferrable skills	D2, D9

4-Course Content:	• Descriptive statistics • Measures of location • Measures of variability • Organization of multivariate data • Probability • Sampling distributions • Confidence intervals • Simple linear regression and correlation • Paired and pooled t-tests • Non-parametric and distribution-free statistics • Analysis of variance • Sampling and sampling sizes
5-Teaching and Learning Methods:	5.1- Interactive lectures. 5.2- E- learning.

6-Student Assessment Methods:

Course ILOs	Teaching methods			Assessment methods				
	Lectures	Practical/ Clinical sessions		Written exams	Oral exams	Practical exams	Quizzes / assignments	Other
a1	√			√	√		√	
a2	√			√	√		√	
a3	√			√	√		√	
a4	√			√	√		√	
b1	√			√	√		√	
b2	√			√	√		√	
b3	√			√	√		√	
c1							√	

c2							√	
c3							√	
c4							√	
c5							√	
c6							√	
c7							√	
d1							√	
d2							√	

A-Methods Used:	• Assignments/ presentations • Final written Examination
B-Timing of Assessment:	- Midterm exam. ..... 6th to 7th weeks - Final Written exam ..... 14th to 15th weeks
C-Distribution of Scores:	- Final written exam: 60 marks - Assignments: 40 marks **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	Biostatistics and epidemiology by Tom Heston, 2011.
B-Recommended Books:	Intuitive biostatistics by Harvey Motulsky, 2010. Essentials of biostatistics in public health by Lisa M. Sullivan, second edition, 2011.
C- Periodicals, websites… etc.	1- Journals (the advanced theory of statistics) 2- Web sites (www.pubmed.com).

Course Specifications

1-Course Information

Code: **REM 101**	**Course Title: Research Methodology**	**Academic Level:** **First Part- Semester 1**
Specialty:	**Number of Units in the Course:** 1 **Theoretical** - **Practical**	
2-Course Goals (overall aim):	• **Developing knowledge about scientific research principles.** • **Acquiring knowledge about evidence-based dentistry** • **Proposing a preclinical/clinical research project's protocol including a thorough literature review with the necessary background to define the hypothesis of the proposed research.**	

3-Intended Learning Outcomes (ILOs):

a-Knowledge and Understanding:	**By the end of the course every student will be able to:** **a1-define research problems, aims and objectives** **a2-define the basic elements of a research proposal and research report.** **a3-recognize types and design of analytic and experimental research studies.** **a4- identify protocol structure**

	a5- explain the ethical principles of research. **a6- recognize the principles of evidence-based dentistry**
b-Intellectual Skills:	**By the end of the course every student will be able to:** **b1- explore the theoretical aspects of research principles** **b2- assess risk of bias for using eligible criteria** **b3- correlate between random sequence generation, allocation concealment, blinding of participants and personnel, , blinding of outcome assessment, defined inclusion/exclusion criteria, Incomplete outcome data and selective reporting and the risk of bias** **b4- choose a project from the priority areas of research related to Periodontology** **b5. determine the study design and the objectives (study model, time perspectives, enrolment, number of groups, target follow-up duration, outcome measures, interventions, project timetable) Secure ethical approval (subject information and consent, subject data protection, insurance and indemnity.)**
c-Professional and Practical Skills:	**By the end of the course every student will be able to:** **c1- apply the basic concepts of research methodology** **c2- submit a report on literature review to arrive at a research question.** **c3- design a protocol relevant to his research with supervising staff.** **c4- conduct good quality periodontal research independently** **c5- apply the principles of ethics to selected research and clinical case studies**
d-General and Transferable Skills:	**By the end of the course every student will be able to:** **d1.act consistently within levels of competence and professional norms.**

<table>
<tr><td></td><td>d2. demonstrate a commitment to a life of continuing professional development
d3- demonstrate respect for truth and intellectual integrity
d4-submit publications</td></tr>
<tr><td>e-Course contribution to program ILOs</td><td>
<table>
<tr><th>Course ILOs</th><th>Program ILOs</th></tr>
<tr><td>Knowledge and understanding</td><td>A1, A2, A6, A9</td></tr>
<tr><td>Intellectual skills</td><td>B1, B2, B6, B9</td></tr>
<tr><td>Professional skills</td><td>C3, C10, C11</td></tr>
<tr><td>General and transferrable skills</td><td>D2, D7, D9</td></tr>
</table>
</td></tr>
<tr><td>4-Course Content:</td><td>

Planning a study
Study designs
Systematic review, meta-analysis
Research proposal writing
Ethical challenges in health research and clinical practice
Critical journal reading
Evidence based dentistry

1 Evidence-Based Decision Making
2 Critical Thinking: Assessing Evidence
</td></tr>
<tr><td>5-Teaching and Learning Methods:</td><td>5.1- Interactive lectures to explain the underlying principles in which students are active participants
5.2- Assignments, group project
5.3- Seminars/journal clubs/e-lectures</td></tr>
</table>

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	Practical/ Clinical sessions	Written exams	Oral exams	Practical exams	Quizzes/ assignments	Research project
a1	√		√	√		√	√
a2	√		√	√		√	√
a3	√		√	√		√	√
a4	√		√	√		√	√
a5	√		√	√		√	√
a6	√		√	√		√	√
b1	√		√	√		√	√
b2	√		√	√		√	√
b3	√		√	√		√	√
b4	√		√	√		√	√
b5	√		√	√		√	√
c1						√	√
c2						√	√
c3						√	√
c4						√	√
c5						√	√
d1						√	√
d2						√	√
d3						√	√
d4						√	√

A-Methods Used:	• **Assignments/ presentations** • **Practical exam** • **Final written and oral Examination**
B-Timing of Assessment:	**- Midterm exam. ..... 6th to 7th weeks** **- Written & Oral exam ..... 14th to 15th weeks**
C-Distribution of Scores:	**- Final written exam: 60 marks** **- Classwork: 40 marks** **Total 100%**

7-List of Textbooks and References:

A-Essential Books (Textbooks):	**-Kumar, Ranjit, 2011, Research Methodology-A Step-by-Step Guide for Beginners,(3nd.ed.),Singapore, Pearson Education.**
B-Recommended Books:	**-Dawson, Catherine, 2002, Practical Research Methods, New Delhi, UBS, Publishers 'Distributor**
C- Periodicals, websites… etc.	**journal of dental research**

Course Coordinator: **Head of Department:**

Date of approval:

Course Specifications

1-Course Information		
Code: OMI101	Course Title: **Oral Microbiology & Immunology**	First Part- Semester 1
Specialty:	Number of Units in the Course: 1 Theoretical 2 Practical	
2-Course Goals (overall aim):	• Acquiring knowledge about bacterial, viral and fungal infections of the oral cavity. • Explaining the principles of immunology, and their clinical application • Integrate oral microbiology and immunology with oral and periodontal health and disease • Recognizing methods of sterilization and disinfection and principles of infection control. • Acquiring knowledge about dental microbiology (oral flora & microbial oral diseases e.g. Dental plaque & Dental caries).	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** a1. recognize basic principles of medical microbiology and immunity. a2. identify the classification and modes of transmission of microorganisms. a3- describe the principles of human-microbe interaction. a4- describe the oral ecology and oral microflora a5. explain dental plaque formation a6. identify non-specific and specific immunological defense reactions, allergy and atopy a7. explain the microbiology and immunology of periodontal disease	
b-Intellectual Skills:	**By the end of the course every student will be able to:** b1- conclude the mechanism of natural immunity, humeral and cell mediated immunity. b2- differentiate infectious diseases and host parasite relationships and level of infection. b3- discuss microbiology of dental plaque and caries b4- compare methods of sterilization & disinfection	

c-Professional and Practical Skills:	**By the end of the course every student will be able to:** c1-interpret the laboratory techniques used in identification of oral pathogens c2- practice appropriate infection control procedures. c3- select appropriate methods of sterilization and disinfection in work fields. c4- formulate an appropriate treatment plan aiding in management of oral infections.
d-General and Transferable Skills:	**By the end of the course every student will be able to:** d1- work in a team. d2- develop presentation skills. d3- manage time.
e-Course contribution to program ILOs	Course ILOs: Program ILOs Knowledge and understanding: A1, A3, A6 Intellectual skills: B2 Professional skills: C3 General and transferrable skills: D2, D7
4-Course Content:	• Overview on general microbiology • Normal oral flora, oral ecosystem and dental plaque • Systemic bacteriology • Microbiology of caries and periodontal disease • Basic immunology • Sterilization and disinfection
5-Teaching and Learning Methods:	5.1-Interactive Lectures 5.2-White board markers. 5.3-Practical (data show) for bacterial demonstration.

6-Student Assessment Methods:

Course ILOs	Teaching methods			Assessment methods				
	Lectures	practical sessions		Written exams	Oral exams	Practical exams	Quizzes/ assignments	Other
a1	√	√		√	√		√	
a2	√	√		√	√		√	
a3	√	√		√	√		√	
a4	√	√		√	√		√	
a5	√	√		√	√		√	
a6	√	√		√	√		√	
a7	√	√		√	√		√	
b1	√	√		√	√		√	

b2	√	√		√	√		√	
b3	√	√		√	√		√	
b4	√	√		√	√		√	
c1		√				√	√	
c2		√				√	√	
c3		√				√	√	
c4		√				√	√	
d1							√	
d2		√					√	
d3							√	

A-Methods Used:	5.1- Quizzes : 5.2- Final Practical Exam to assess practical skills. 5.3- Final written exam 5.4- Structured Oral Examination
B-Timing of Assessment:	- Midterm exam. ..... 6th to 7th weeks - Practical exam..... 11th to 12th weeks - Written & Oral exam ..... 14th to 15th weeks
C-Distribution of Scores:	Written Examination 40% Practical Examination 20% Oral Examination 10% Semester work 30 % **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	- Topley &Wilson Microbiology and Microbial infections 10th Edition
B-Recommended Books:	- Essentials of Medical Microbiology Subsequent edition - Review of Medical Microbiology Patrick R Murray Ken s. Rosenthal
C- Periodicals, websites… etc.	www.**microbiology**online.org.uk ***microbe.net/resources/microbiology-web-resources***

Course Coordinator: **Head of Department:**

Date of approval:

Course Specifications

1-Course Information

Code: GEP 101	Course Title: **General Pathology**	Academic Level: First Part- Semester 1
Specialty:	Number of Units in the Course: 1 Theoretical 2 Practical	
2-Course Goals (overall aim):	- Familiarizing students with the basic disease patterns and processes relevant to the practice of dentistry.	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** a1- recognize basic pathology terminology and clinical terms that refer to pathological conditions correctly a2- recognize the integration of human body systems, normal homeostasis and mechanisms of responses to insults including trauma and disease. a3-describe alterations in the structure and function of major body systems as a result of disease.	
b-Intellectual Skills:	**By the end of the course every student will be able to:** b1- correlate between the main medical disorders and aspects of general medicine and general surgery that may impinge on dental treatment. b2- evaluate the medical problems and formulate accurate hypotheses to serve as the basis of correct diagnosis and treatment . b3-predict the signs and symptoms of a disease based on the underlying gross and microscopic tissue changes. b4-Interpret in a professional manner a pathology report.	
c-Professional and Practical Skills:	**By the end of the course every student will be able to:** c1- diagnose the pathologic picture of a disorder based on gross and microscopic morphology	

d-General and Transferable Skills:	**By the end of the course every student will be able to:** d1-communicate effectively and professionally within a team. d2- retrieve information. d3- develop presentation skills
e-Course contribution to program ILOs	

Course ILOs	Program ILOs
Knowledge and understanding	A1, A3, A6
Intellectual skills	B2, B5
Professional skills	C1
General and transferrable skills	D7- D9

4-Course Content:	• Cell injury, death and adaptation • Acute and chronic inflammation • Repair: Cell regeneration, fibrosis, and wound healing • Disorders of the immune system • Hemodynamics
5-Teaching and Learning Methods:	5.1- lectures. 5.2-practical / A:histopathology laboratory. B:museum of pathology.

6-Student Assessment Methods:

Course ILOs	Teaching methods			Assessment methods				
	Lectures	Clinical sessions		Written exams	Oral exams	Practical exams	Quizzes/ assignments	Other
a1	√	√		√	√		√	
a2	√	√		√	√		√	
a2	√	√		√	√		√	
b1	√	√		√	√		√	
b2	√	√		√	√		√	
b3	√	√		√	√		√	
b4	√	√		√	√		√	
c1		√				√	√	
d1							√	
d2							√	
d3		√					√	

A-Methods Used:	- Written quizzes/tests, multiple choice exams to assess knowledge and understanding - Final written exam to assess their core theoretical knowledge - Oral exam to assess their understanding, communication skills and problem-solving abilities.

	- Assignments and presentations
B-Timing of Assessment:	- Midterm exam. ..... 6th to 7th weeks - Practical exam..... 11th to 12th weeks - Written exam ..... 14th to 15th weeks
C-Distribution of Scores:	Written Examination 40% Practical Examination 20% Oral Examination 10% Semester work 30 % **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	Basic pathology by kumar , cotran&robbins
B-Recommended Books:	Color atlas of histopathology , curran & r.c Cross pathology , curranr.c & jones e.l
C- Periodicals, websites… etc.	-http://www.pathmax.com/- http://www.med.uiuc.edu/pathAtlasf/titlepage.html -http:// www .medscape.com /pathologyhome

Course Coordinator:

Head of Department: **Date of approval:**

Course Specifications

1-Course Information		
Code: ORR 202	Course Title :**Oral &Maxillofacial** **Radiology II**	Academic Level: First Part- Semester 2
Specialty:	Number of Units in the Course: 2 Theoretical 2 Practical	
2-Course Goals (overall aim):	• Recognizing the radiological features of the various diseases affecting the teeth and jaws • Interpreting the radiological features of dental caries and periodontal diseases.	

3-Intended Learning Outcomes (ILOs):	
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** a1- recognize the concepts of digital imaging a2- describe radiological features of different a3- recognize the appearance of normal and pathologic tissues and structures on the radiographs
b-Intellectual Skills:	By the end of the course every student will be able to: b1-discuss the concepts of digital imaging b2-discuss the basic principles underlying the techniques used in CT, MRI, ultrasound and nuclear medicine. b3- interpret the normal anatomy of the maxillofacial region including the anatomy of the temporo-mandibular joint as seen on CT & MRI

<table>
<tr><td></td><td>b4- compare the appearance of normal and pathologic tissues and structures on the radiographs</td></tr>
<tr><td>c-Professional and Practical Skills:</td><td>By the end of the course every student will be able to:
c1- perform all the relevant intra- and extra-oral radiographic procedures as applied in maxillofacial radiology
c2. apply the basic principles of diagnostic imaging in the interpretation of lesions of the maxillofacial region
c3- write a radiological report of high standard.
c4- make a provisional diagnosis of common lesions of the maxillofacial region.</td></tr>
<tr><td>d-General and Transferable Skills:</td><td>By the end of the course every student will be able to:
d1- demonstrate a loyal and ethically accountable disposition towards the profession, patients and community.</td></tr>
<tr><td>e-Course contribution to program ILOs</td><td><table><tr><th>Course ILOs</th><th>Program ILOs</th></tr><tr><td>Knowledge and understanding</td><td>A1, A5</td></tr><tr><td>Intellectual skills</td><td>B2, B3</td></tr><tr><td>Professional skills</td><td>C1, C9</td></tr><tr><td>General and transferrable skills</td><td>D2, D7,D8</td></tr></table></td></tr>
<tr><td>4-Course Content:</td><td>Principles of radiological interpretation
Radiographic interpretation of central lesions
Radiolucencies of the jaws
Primary opaque or mixed lucent/opaque conditions
Principles of tomography, CT, MRI, digital imaging and diagnostic ultrasound
Advanced imaging interpretation principles
TMJ Imaging</td></tr>
<tr><td>5-Teaching and Learning Methods:</td><td>5.1- Lectures to explain the underlying principles in which students are active participants</td></tr>
</table>

	5.2-Weekly seminars/ tutorials to apply the underlying principles **5.3- Practical sessions** **5.4- Assignments** **5.5- Case Based Discussions** **5.6- Mini Clinical Exercise**

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	**Clinical sessions**	**Written exams**	**Oral exams**	**Practical exams**	**Quizzes/ assignments**	**Other**
a1	√	√	√	√		√	
a2	√	√	√	√		√	
a3	√	√	√	√		√	
b1	√	√	√	√		√	
b2	√	√	√	√		√	
b3	√	√	√	√		√	
b4	√	√	√	√		√	
c1		√			√	√	
c2		√			√	√	
c3		√			√	√	
c4		√			√	√	
d1						√	

A-Methods Used:	1. - Written quizzes/tests, multiple choice exams to assess knowledge and understanding 2. - Practical exam to assess student ability to use take different x-ray views. 3. - Final written exam to assess their core theoretical knowledge

	4. - Oral exam to assess their understanding, communication skills and problem-solving abilities. 5. - Assignments and presentations
B-Timing of Assessment:	• Written exams ,quizzes : week 4,7 and 12 • Final exam : at the end of the semester • Practical exams : at the end of the semester • Oral exam: at the end of the semester
C-Distribution of Scores:	Final-term examination 40% Practical examination 20% Oral examination 20% Class work: Quizzes 10% Assignment 10% **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	-White and Pharoah Oral Radiology, Principles and Interpretation.8th edition.
B-Recommended Books:	-Concise Oral Radiology 2Ed, Umarjii HR 2015
C- Periodicals, websites… etc.	-Pubmed -American Academy of Oral and Maxillofacial Radiology: - http://www.aaomr.org/index.php http://ddsdx.uthscsa.edu/dig/digimage.html

Course Specifications

1-Course Information		
Code: ORD202	Course Title: Oral Diagnosis	Academic Level: First Part- Semester 2
Specialty:	Number of Units in the Course: 2 Theoretical 2 Practical	

2-Course Goals (overall aim):	• Acquiring knowledge about the classification, clinical, radiological, histological features of dental and oral diseases. • Interpreting the clinical features of dental and oral diseases and conditions • Explaining the common investigative modalities that are used to diagnose oral and maxillofacial regions • Correlating the pertinent clinical, radiological and laboratory data to formulate a differential and final working diagnosis. • Providing the fundamental knowledge needed to create treatment plans with emphasis on the central role of the patient, whose needs and informed choices should drive the treatment planning process.
3-Intended Learning Outcomes (ILOs):	
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** a1.recognize the more common abnormalities affecting the maxillofacial region a2- identify the signs and symptoms of important lesions a3- describe oral and dental manifestations of systemic diseases. a4. identify Oral and Dental consequences of Medications. a5. systematically describe the causes and clinical features of orofacial pain, cervical lymphadenopathy and different lesions
b-Intellectual Skills:	**By the end of the course every student will be able to:** b1. differentiate between different causes of pain in the oral cavity and adjacent structures. b2. diagnose anomalies and abnormalities in the dentition, oral

<table>
<tr><td></td><td>mucosa and facial structures.
b3. formulate the most appropriate treatment plan following consideration of the underlying etiological factors and the expectations of the patient
b4. predict the course of the planned treatment</td></tr>
<tr><td>c-Professional and Practical Skills:</td><td>By the end of the course every student will be able to:
c1.take comprehensive case history
c2. conduct a systematic procedure for examining extraoral and intraoral structures including temporomandibular joint disorders.
c3. apply and interpret various laboratory investigations in oral diagnosis
c4. present an acceptable differential diagnosis
c5.diagnose common lesions of dental and oral tissues</td></tr>
<tr><td>d-General and Transferable Skills:</td><td>By the end of the course every student will be able to:
d1. demonstrate involvement within the broad community by contributing effectively to improved health of patients and communities
d2-communicate effectively and professionally within a team.
d3. develop a sensitive and caring relationship with their patients
d4- develop presentation skills</td></tr>
<tr><td>e-Course contribution to program ILOs</td><td><table><tr><th>Course ILOs</th><th>Program ILOs</th></tr><tr><td>Knowledge and understanding</td><td>A1, A3, A6</td></tr><tr><td>Intellectual skills</td><td>B2, B5</td></tr><tr><td>Professional skills</td><td>C1, C3, C8</td></tr><tr><td>General and transferrable skills</td><td>D1-D9</td></tr></table></td></tr>
<tr><td>4-Course Content:</td><td>• Information Gathering and Diagnosis Development
• Laboratory Investigations
• Developing the Treatment Plan
• Oral and Dental Changes in systemic diseases
• Oral and Dental consequences of Medications
• Medical Emergencies in dental office
• Diagnosis of Orofacial pain
• Diagnosis of caries and non- carious lesions
• Modern Diagnostic modalities</td></tr>
<tr><td>5-Teaching and Learning Methods:</td><td>5.1- Lectures
5.2- clinical sessions (Performing full charting and clinical examination on patients)
5.3- Tutorial sessions and seminars
5.4- Case Presentation sessions</td></tr>
</table>

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	Clinical sessions	Written exams	Oral exams	Practical exams	Quizzes/ assignments	Other
a1	√	√	√	√		√	
a2	√	√	√	√		√	
a3	√	√	√	√		√	
a4	√	√	√	√		√	
a5	√	√	√	√		√	
b1	√	√	√	√		√	
b2	√	√	√	√		√	
b3	√	√	√	√		√	
b4	√	√	√	√		√	
c1		√			√	√	
c2		√			√	√	
c3		√			√	√	
c4		√			√	√	
c5		√			√	√	
d1						√	
d2		√				√	
d3						√	
d4						√	

A-Methods Used:	• Portfolio: Continuous Assessment, regular chair side discussions of practicals/clinical • Objective Structured Oral Examination • Objective Structured Clinical Examination (OSCE) • Assignments/ presentations • Practical exam • Final written and oral Examination
B-Timing of Assessment:	- Midterm exam. ..... 6^{th} to 7^{th} weeks - Practical exam..... 11^{th} to 12^{th} weeks - Written & Oral exam ..... 14^{th} to 15^{th} weeks
C-Distribution of Scores:	Written Examination 40% Practical Examination 20% Oral Examination 10% Semester work 30 % **Total** **100%**

7-List of Textbooks and References:

A-Essential Books (Textbooks):	Burket's Oral Medicine (12th ed)
C- Periodicals, websites… etc.	PubMed - Elsevier - Obesco

Course Coordinator: **Head of Department:**

Date of approval:

Course Specifications

1-Course Information		
Code: IMP201	Course Title: Dental Implantology I	Academic Level: First Part- Semester 2
Specialty:	Number of Units in the Course: 1 Theoretical 2 Practical	
2-Course Goals (overall aim):	• Imparting knowledge, skill in the science and practice of implant dentistry. • Acquiring knowledge about basic principles, theory and safe practice of implant dentistry. • Recognition of the basic science of osseointegration.	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** a1- describe the indications and contra-indications of different implant systems. a2- recognize the fundamental principles and theory of implant dentistry a3- recognize classification and design of implant systems. a4- describe the biologic aspects of dental implant therapy, including bone biology, the phenomenon of osseointegration, and the relationship of peri-implant soft tissues with dental implants a5- describe surface characteristics that influence healing following dental implant placement a6- explain wound healing after implant placement including soft tissue healing a7- describe various imaging modalities currently recommended for pre-surgical and post-surgical implant site assessment a8- describe the role of the various oral health care providers in the implant team	
b-Intellectual Skills:	**By the end of the course every student will be able to:** b1-discuss the indications and contra-indications of implant	

	placement b2- compare between different types of dental implants b3- critically analyze the various treatment options based on evidence- based dentistry. b4. Assess risk of the implant patient
c-Professional and Practical Skills:	**By the end of the course every student will be able to:** c1- diagnose patients suitable for dental implant treatment c2- interpret radiographic Imaging in dental implantology c3- provide a comprehensive treatment plan for implant cases
d-General and Transferable Skills:	**By the end of the course every student will be able to:** d1. demonstrate involvement within the broad community by contributing effectively to improved health of patients and communities d2-communicate effectively and professionally within a team.
e-Course contribution to program ILOs	Course ILOs / Program ILOs Knowledge and understanding — A1, A2, A4, A5, A7 Intellectual skills — B1, B2, B4, B7, B8 Professional skills — C2-C4, C6, C9 General and transferrable skills — D2-D4, D7, D9
4-Course Content:	• Introduction to Dental Implantology • Implant biomaterials and surface characteristics • Biological aspects of dental implants, including osseointegration. • Examination, Diagnosis, Treatment planning for dental implants • Basic surgical considerations and techniques for placement of endosseous implants
5-Teaching and Learning Methods:	5.1- Active chair-side assistances of senior periodontists

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	Practical sessions	Written exams	Oral exams	Practical exams	Quizzes/ assignments	Other
a1	√	√	√	√		√	
a2	√	√	√	√		√	
a3	√	√	√	√		√	
a4	√	√	√	√		√	

a5	√	√	√	√		√
a6	√	√	√	√		√
a7	√	√	√	√		√
b1	√	√	√	√		√
b2	√	√	√	√		√
b3	√	√	√	√		√
b4	√	√	√	√		√
c1		√			√	√
c2		√			√	√
c3		√			√	√
d1						√
						√

A-Methods Used:	• Assignments/ presentations • Practical exam • Final written and oral Examination
B-Timing of Assessment:	- Midterm exam. ..... 6th to 7th weeks - Practical exam..... 11th to 12th weeks - Written & Oral exam ..... 14th to 15th weeks
C-Distribution of Scores:	Written Examination 40% Practical Examination 20% Oral Examination 10% Semester work 30 % **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	**Oral and Implant Surgery: Principles and Procedures 1st Edición** de J Thomas Lambrecht Ed (Author) Quintessence Publishing (IL); 1er edición (1 Agosto 2009)
C- Periodicals, websites… etc.	PubMed, Elsevier, Obesco

Course Coordinator: **Head of Department:**

Date of approval:

Course Specifications

1-Course Information		
Code: ORP202	Course Title: Oral &Maxillofacial Pathology II	Academic Level: First Part- Semester 2
Specialty:	Number of Units in the Course: 2 Theoretical 2 Practical	
2-Course Goals (overall aim):	• Acquiring knowledge about the etiology and pathogenesis of a comprehensive range of diseases and conditions in the oral and maxillofacial region. • Interpreting the histopathological features of dental and oral diseases and conditions. • Applying this knowledge in the clinical management of patients with oral and periodontal diseases.	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** a1. describe different white and red lesions a2. identify different premalignant lesions and conditions and point out them on microscopic slides a3. describe clinical and histological features of different benign and malignant epithelial tumors. a4. recognize reactive and non-reactive lesions and their treatment a5. describe features of benign and malignant connective tissue lesions and differentiate between them a6. identify immunohistochemistry, immunofluorescence, flow cytometry and electron microscopy techniques.	
b-Intellectual Skills:	**By the end of the course every student will be able to:** b.1 select the appropriate treatment plan for different pathological lesions. b.2 determine the prognosis of the different oral diseases	

	b.3**.** differentiate between various oral lesions. b.4. distinguish between different soft tissue tumors.
c-Professional and Practical Skills:	**By the end of the course every student will be able to:** c1- provide preventive instructions based on sound biological principles to maintain the health of oral tissues and prevent disease c.2 diagnose various oral lesions. c.3 interpret histologically various lesions.
d-General and Transferable Skills:	**By the end of the course every student will be able to:** d1- work in a team. d2- design a professional presentation.
e-Course contribution to program ILOs	Course ILOs — Program ILOs Knowledge and understanding — A1, A5 Intellectual skills — B2, B3 Professional skills — C1, C6 General and transferrable skills — D2, D7
4-Course Content:	1. Red and white lesions 2. Soft tissue tumors 3. Oral pre-malignancy 4. Oral cancer 5. Special laboratory techniques
5-Teaching and Learning Methods:	**5.1-** Lectures to explain the underlying principles in which students are active participants **5.2-** Tutorial sessions to apply the underlying principles **5.3-** Practical sessions

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	Clinical sessions	Written exams	Oral exams	Practical exams	Quizzes/ assignments	Other
a1	√	√	√	√		√	
a2	√	√	√	√		√	
a3	√	√	√	√		√	
a4	√	√	√	√		√	
a5	√	√	√	√		√	
b1	√	√	√	√		√	
b2	√	√	√	√		√	
b3	√	√	√	√		√	
b4	√	√	√	√		√	
c1		√			√	√	
c2		√			√	√	

c3	√		√	√
d1				√
d2	√			√

A-Methods Used:	• Lectures and illustrated presentations • Practical sessions using light microscope and microscopic slides • Assignments/ presentations • Practical exam • Final written and oral Examination
B-Timing of Assessment:	- Midterm exam. ..... 6th to 7th weeks - Practical exam..... 11th to 12th weeks - Written & Oral exam ..... 14th to 15th weeks
C-Distribution of Scores:	Written Examination 40% Practical Examination 20% Oral Examination 10% Semester work 30 % **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	Brad W. Neville: Oral and maxillofacial pathology, Fourth edition
B-Recommended Books:	*Cawson's essentials of oral pathology and oral medicine *Shafer's textbook of oral pathology *Marx and Stern: "Oral and Maxillofacial Pathology" 2002 *Robbins: "Basic pathology" 7th Ed.
C- Periodicals, websites… etc.	www.ncbi.nlm.nih.gov.gov/pubmed www.sciencedirect.com

Course Coordinator: **Head of Department:**

Date of approval:

Course Specifications

-Course Information		
Code:	**Course Title: Applied surgical Anatomy**	**Academic Level:** **First Part- Semester 2**
Specialty:	**Number of Units in the Course:** 1 **Theoretical** - **Practical**	
2-Course Goals (overall aim):	**This course will introduce the student to human anatomy relevant to surgical practice in general. The course will be based on a recognised syllabus submitted to the Postgraduate Medical Education Training Board by the nine surgical specialties. The aim will be to ensure that candidates assimilate knowledge of the applied anatomy that will be required for a surgical career including sound three dimensional knowledge of the anatomy relevant to surgical practice and to the major imaging methods. The course will ensure that sufficient knowledge of applied surgical embryology is acquired to allow understanding of common congenital abnormalities and acquire basic knowledge of the normal microscopic structure of tissues and organ**	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course the student will be able to** **a1. Discuss and integrate regional gross anatomy of the trunk and upper extremities with common pathological conditions associated with the specific region.** **a2. Correlate the presented gross and neuroanatomical structures to their function and physiology.**	

<table>
<tr><td>b-Intellectual Skills:</td><td>By the end of the course every student will be able to:
b1. b1. Interpret the basic anatomic, pathologic and physiologic facts and integrate them
b2. Interpret information objectively, express systemic thinking
b3. Correlate the functional anatomy of head and neck to clinical cases.
B4. Interpret and illustrate cut sections of head and neck vasculature neurologic structures and muscles</td></tr>
<tr><td>c-Professional and Practical Skills:</td><td>By the end of the course every student will be able to:
c1.correlate anatomical variabilities, sites to necessary surgical procedures
c2- anticipate complications due to presence of vital structures
and manage patients with facial Pain and neuromuscular diseases</td></tr>
<tr><td>d-General and Transferable Skills:</td><td>By the end of the course every student will be able to:
d1. communicate effectively with patients and with other health professionals
d2. play a meaningful role as a member of society
d3. provide comprehensive practice management</td></tr>
<tr><td>e-Course contribution to program ILOs</td><td><table><tr><th>Course ILOs</th><th>Program ILOs</th></tr><tr><td>Knowledge and understanding</td><td>A1, A3, A11</td></tr><tr><td>Intellectual skills</td><td>B2, B4, B5</td></tr><tr><td>Professional skills</td><td>C1, C8</td></tr><tr><td>General and transferrable skills</td><td>D1-D9</td></tr></table></td></tr>
<tr><td>4-Course Content:</td><td>1. Head and neck structures correlation with various extra oral surgical approaches
2. Trauma and gun shot relation to anatomical structures</td></tr>
<tr><td>5-Teaching and Learning Methods:</td><td>• Lectures</td></tr>
<tr><td colspan="2">6-Student Assessment Methods:</td></tr>
</table>

Course ILOs	Teaching methods		Assessment methods					
	Lectures		Written exams		Oral exams		Quizzes/ assignments	Other
a1	√	√		√				
a2	√		√					
a3	√		√					
a4	√		√					
a5	√	√			√			
a6	√	√			√			
b1	√	√			√			
b2	√	√			√			
b3	√	√			√			
b4	√	√			√			
b5	√	√			√			
c1			√		√			
c2		√				√	√	
c3		√				√	√	
c4		√				√	√	
c5		√				√	√	
d1							√	
d2							√	
d3							√	
d4							√	

A-Methods Used:	- **- Continuous assessment:** - **- Written Examination: at the end of the module 40%** - **- Structured Oral Examination (at the end of the module) 20%**
B-Timing of Assessment:	**- Midterm exam. ..... 6th to 7th weeks** **- Practical exam..... 11th to 12th weeks** **- Written exam ..... 14th to 15th weeks**
C-Distribution of Scores:	**Written Examination 40%** **Oral Examination 20%** **Semester work 20 %** **Total 100%**
7-List of Textbooks and References:	
A-Essential Books	Surgical Approaches to the Facial Skeleton Publication Year:2018**3rd Ed.Author:** **Ellis, III, Edward; Zide, Michael F.**

Course Specifications

1-Course Information		
Code: GEN101	Course Title: **Genetics**	Academic Level: First Part- Semester 1
Specialty:	Number of Units in the Course: 1 Theoretical - Practical	
2-Course Goals (overall aim):	Getting knowledge about molecular genetics and human allelic disorders with special emphasis on relation to periodontal diseases	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** a1. describe Mendel experiments' and discuss results . a2- enumerate types of nucleic acids and describe physical and chemical structure. a3- state different types of human allelic disorders. a4. describe chromosome structure, gene expression, transcription and translation a5. identify different types of human allelic disorders.	
b-Intellectual Skills:	**By the end of the course every student will be able to:** b1- differentiate the main types of allelic disorder b2- correlate between principles of genetics and pathogenesis of periodontal diseases b3- relate genetics to clinical practice	
c-Professional and Practical Skills:	**By the end of the course every student will be able to:** No practical course	
d-General and Transferable Skills:	**By the end of the course every student will be able to:** d1- utilize information technology to access information d2- work in a team. d3- develop presentation skills	

e-Course contribution to program ILOs	

Course ILOs	Program ILOs
Knowledge and understanding	A1, A3, A6
Intellectual skills	B2
Professional skills	
General and transferrable skills	D2, D7

4-Course Content:	• Cell cycle control, apoptosis and ageing • Mendelian genetics • Chromosomal abnormalities and human allelic disorders • Gene expression, transcription, translation and regulation • Genetic Variation within the Human Species Population • Principles of molecular biology
5-Teaching and Learning Methods:	5.1 Lectures to explain the underlying principles in which students are active participants 5.2 illustrated presentations

6-Student Assessment Methods:

Course ILOs	Teaching methods			Assessment methods				
	Lectures	Practical/ Clinical sessions		Written exams	Oral exams	Practical exams	Quizzes/ assignments	Other
a1	√			√	√		√	
a2	√			√	√		√	
a3	√			√	√		√	
a4	√			√	√		√	
a5	√			√	√		√	
b1	√			√	√		√	
b2	√			√	√		√	
b3	√			√	√		√	
d1							√	
d2							√	
d3							√	

A-Methods Used:	1- Final written exam to assess their core theoretical knowledge assignments
B-Timing of Assessment:	1- Assignment week 6 2- Final exam week 15
C-Distribution of Scores:	- Final written exam: 60 marks - Assignments: 40 marks **Total 100%**
7-List of Textbooks and References:	

A-Essential Books (Textbooks):	- Kreps's Cell and molecular biology , 8th edition -Genetics: Analysis and principles by: Robert Booker - Biology by Robert J. Booker et al. Mc Graw Hills, 4th edition
C- Periodicals, websites… etc.	www.biology-online.org

Course Coordinator: **Head of Department:**

Date of approval:

Course Specifications

1-Course Information		
Code: PHR 101	Course Title: **Pharmacology**	Academic Level: First Part- Semester 1I
Specialty:	Number of Units in the Course: 2 Theoretical 2 Practical	
2-Course Goals (overall aim):	- Providing students with information on pharmaceutical agents used in dentistry and their applications - Practicing skills& attitude towards selection and use of drugs on rational bases.	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** a1- describe the pharmacokinetic pharmacodynamic and pharmacotherapeutic properties of different groups of drugs affecting body systems. a2-define the principles the indication the relative advantages and disadvantages of various pharmacotherapy modalities. a3- discuss the pharmacology and uses of analgesics (Narcotic and non – narcotic) and anti – inflammatory drugs (steroidal and non – steroidal) a4- recognize the antimicrobials relevant to the scope of practice a5-discuss the use of antiseptics and disinfectants in dentistry a6- list limitations to the use of drugs such as contraindication and drug interactions.	
b-Intellectual Skills:	**By the end of the course every student will be able to:** b1- employ proper drugs to treat particular patient. b2- select drugs dosages, bioavailability, plasma half-life and volume of distribution in different patient populations ,put in consideration appropriate route of administration, age, sex & associated diseases.	

<table>
<tr><td>c-Professional and Practical Skills:</td><td>By the end of the course every student will be able to:
c1-detect mechanism of drug action.
c2-recognize risky drug interactions.
c3- prescribe drugs for selected cases.</td></tr>
<tr><td>d-General and Transferable Skills:</td><td>By the end of the course every student will be able to:
d.1 communicate medical terminology (verbal and written) in an understandable, logical, concise manner.
d.2 collect data and present a concise review about a chosen topic.
d.3 have professionalism, integrity, discipline, respect for human life and death, respect for superiors and cooperation with colleagues.</td></tr>
<tr><td>e-Course contribution to program ILOs</td><td>
<table>
<tr><th>Course ILOs</th><th>Program ILOs</th></tr>
<tr><td>Knowledge and understanding</td><td>A1, A3, A6, A8</td></tr>
<tr><td>Intellectual skills</td><td>B2, B4</td></tr>
<tr><td>Professional skills</td><td>C2, C8</td></tr>
<tr><td>General and transferrable skills</td><td>D6</td></tr>
</table>
</td></tr>
<tr><td>4-Course Content:</td><td>
<u>Basic pharmacology principles</u>
<u>Analgesic and anti – inflammatory agents</u>
o NSAIDs
o Narcotic analgesics
<u>Basic principles of antimicrobial therapy</u>
o Principles of effective chemotherapy
o Therapeutic uses in dentistry
o Antibacterial agents
o Antifungal agents
o Antiviral agents
<u>Antiseptics and disinfectants</u>
o Levels of disinfection
o Mechanism of action
o Mouthwashes
<u>Sedatives and Anxiolytics</u>
o Mechanism of action, effects, side effects, toxic effects, clinical uses
<u>Anesthetics</u>
o Conscious sedation
o Indications, contra –indications
o Mechanism of action
o Pre –medication, routes of administration
o Stages of analgesia
o Tranquilizers: Mechanism of action, effects, side
</td></tr>
</table>

	effects, toxic effects and clinical uses Corticosteroids
5-Teaching and Learning Methods:	5.1- Interactive lectures. 5.2-tutorial(small group teaching) 5.3- practical :modules 5.4- Case Based Discussions 5.5- Mini Clinical Exercise

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	Practical sessions	Written exams	Oral exams	Practical exams	Quizzes/ assignments	Other
a1	√	√	√	√		√	
a2	√	√	√	√		√	
a3	√	√	√	√		√	
a4	√	√	√	√		√	
a5	√	√	√	√		√	
a6	√	√	√	√		√	
b1	√	√	√	√		√	
b2	√	√	√	√		√	
c1		√			√	√	
c2		√			√	√	
c3		√			√	√	
d1						√	
d2						√	
d3		√				√	

A-Methods Used:	• Assignments/ presentations • Practical exam • Final written and oral Examination
B-Timing of Assessment:	- Midterm exam. ..... 6th to 7th weeks - Practical exam..... 11th to 12th weeks - Written & Oral exam ..... 14th to 15th weeks
C-Distribution of Scores:	Written Examination 40% Practical Examination 20% Oral Examination 10% Semester work 30 % **Total 100%**
7-List of Textbooks and References:	

A-Essential Books (Textbooks):	-Pharmacology- Lippincott s illustrated reviews Richard A Harvey Pamela C.C hamper
B- Recommended Books:	-Pharmacology (6^{th} edition) rang h p, dale M.M. Ritter j m.
C- Periodicals, websites… etc.	British journal of pharmacology & middle east medical index

Course Coordinator: **Head of Department**

:Date of approval:

Course Specifications

Code: **CIC201**	**Cross Infection Control In surgical practice**	**Academic Level:** **First Part- Semester 2**
Specialty:	**Number of Units in the Course:** 1 **Theoretical** **Practical**	
2-Course Goals (overall aim):	**This course will introduce the student to recognize portal of entry for pathogens and principle of cross infection** **Inform and educate the students on the basic principles of cross contamination barriers and infection control measures in the dental health care facility** **Teaches students all methods to control cross infections in dental office**	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the program, the student should be able to:** **a1. Identify portal of entry for different pathogens** **a2. Describe the basis of infection control in dental office** **a3. Identify the principles of infection control in hospital sitting a4. Recognize how to monitor efficiency of sterilization techniques** **a4. Understood the importance of cross-contamination barriers on the overall**	

<table>
<tr><td>b-Intellectual Skills:</td><td>By the end of the course every student will be able to:
B1. Select the most suitable technique for infection control in dental practice
b2. Integrate infection control guidelines, clinical examination and other investigation for safety of patients and dental profession
b3. Differentiate between sterilization and disinfection
b4. Solve clinical problems related to cross infection by intellectual rigor
b5. Select the most appropriate technique to control cross infection for a particular case</td></tr>
<tr><td>c-Professional and Practical Skills:</td><td>By the end of the course every student will be able to:
C 1. Perform the best practice techniques related to the management of contaminated surfaces and instruments
C2. Apply appropriate cleaning, decontamination and sterilization protocols
C3. Apply principles of infection control in hospital sitting
C4. Apply principles of infection control with oral biopsies
C5. Apply current infection control guidelines.
C6. Monitor infection control process</td></tr>
<tr><td>d-General and Transferable Skills:</td><td>By the end of the course every student will be able to:
d1. Retrieve and evaluate information from different resources. d2. Implement professional responsibility towards patient safety.
d3.Work effectively within a team
d4. Practice self-evaluation and criticism.
d5. Implement critical thinking and problem solving skills. d6. Adopt legal, ethical and professional rules.
d7. Practice self-learning for continuous improvement of professional knowledge</td></tr>
<tr><td>e-Course contribution to program ILOs</td><td><table><tr><th>Course ILOs</th><th>Program ILOs</th></tr><tr><td>Knowledge and understanding</td><td>A1, A3, A11</td></tr><tr><td>Intellectual skills</td><td>B2, B4, B5</td></tr></table></td></tr>
</table>

	Professional skills **C1, C8** **General and transferrable skills** **D1-D9**
4-Course Content:	**Helps student to recognize portal of entry for pathogens and principle of cross infection** **Inform and educate the students on the basic principles of cross contamination barriers and infection control measures in the dental health care facility** **Teaches students all methods to control cross infections in dental office**
5-Teaching and Learning Methods:	• **Lectures**

6-Student Assessment Methods:

Course ILOs	**Teaching methods**	**Assessment methods**			
	Lectures	**Written exams**	**Oral exams**	**Quizzes/ assignments**	**Other**
a1	√		√		
a2	√	√			
a3	√	√			
a4	√	√			
a5	√		√		
a6	√		√		
b1	√		√		
b2	√		√		
b3	√		√		
b4	√		√		
b5	√		√		
c1		√	√		

c2		√	√
c3		√	√
c4		√	√
c5		√	√
d1			√
d2			√
d3			√
d4			√

A-Methods Used:	**- Continuous assessment:** **- Written Examination: at the end of the module 40%** **- Structured Oral Examination (at the end of the module) 20%**
B-Timing of Assessment:	**- Midterm exam. ..... 6th to 7th weeks** **Written exam ..... 14th to 15th weeks**
C-Distribution of Scores:	**Written Examination 40%** **Oral Examination 20%** **Semester work 20 %** **Total 100%**
7-List of Textbooks and References:	
A-Essential Books	
C- Periodicals, websites… etc.	

Course Specifications

1-Course Information

Code: **GLA201**	**Course Title: General And local Anesthesia**	**Academic Level:** **First Part- Semester 2**
Specialty:	**Number of Units in the Course:** 2 2 **Theoretical** **Practical**	
2-Course Goals (overall aim):	**The Purpose and the objectives of this course are intended to familiarize students with the theoretical and clinical application of dental anaesthesia,** **selecting and evaluating the anaesthesia technique, which will be applied in each case, both in relation to the anaesthetic substance used and the available resources,** **as well as the overall health of the patient. students will be able to deal with patients with systemic diseases and the local or general complications that can occur during and after the administration of anaesthesia in Dentistry. The course is designed to integrate with lectures, laboratories, small group discussions and tutorials to enable students to apply that knowledge to properly select and administer dental anaesthesia.**	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course the student will be able to** **a1 Describe the basic anatomical sites of the oral cavity and the jaws for performing dental anaesthesia.** **a2. Discuss the various instrumentation and tools for performing local anaesthesia.**	

<table>
<tr><td></td><td>a3.List the local anaesthetic drugs and their combination with vasoconstrictors</td></tr>
<tr><td>b-Intellectual Skills:</td><td>By the end of the course every student will be able to:
b1. Perform local anaesthesia techniques in dental models.
b2 Discuss the alternative anaesthesia techniques of the central nervous system as well as extraoral anaesthesia techniques of specific nerves.
b3 Explain the causes of failure in local anaesthesia.
B4 Manage localized complications related to local anaesthesia.</td></tr>
<tr><td>c-Professional and Practical Skills:</td><td>By the end of the course every student will be able to:
c1. Recognize manage general complications related to local and general anaesthesia (allergic reaction, overdose, fainting, cardiac arrest).
C2 Provide local anesthesia to patients with systemic diseases.
C 3 3-dimensional visualization of anatomical structures in head and neck to familiarize with landmarks of different local anaesthetic techniques</td></tr>
<tr><td>d-General and Transferable Skills:</td><td>By the end of the course every student will be able to:
d1. communicate effectively with patients and with other health professionals
d2. play a meaningful role as a member of society
d3. provide comprehensive practice management</td></tr>
<tr><td>e-Course contribution to program ILOs</td><td><table><tr><th>Course ILOs</th><th>Program ILOs</th></tr><tr><td>Knowledge and understanding</td><td>A1, A3, A11</td></tr><tr><td>Intellectual skills</td><td>B2, B4, B5</td></tr><tr><td>Professional skills</td><td>C1, C8</td></tr><tr><td>General and transferrable skills</td><td>D1-D9</td></tr></table></td></tr>
<tr><td>4-Course Content:</td><td>Introduction to Dental Anaesthesia
Pharmacology I – Local Anaesthetic drugs
Pharmacology II – Vasoconstrictors • Anatomy of the Trigeminal Nerve
The Armamentarium – Instrumentation and tools of administering local anaesthesia</td></tr>
</table>

	• **Clinical local anaesthetic techniques for Oral and Maxillofacial region** • **Patient risk assessment, emergency drugs and equipment** • **Consideration of special needs and medically compromised patients- Indication and contraindication of dental anaesthesia** • **Use of Nitrous Oxide and Intravenous Sedation for dental anxiety/phobia** • **Local and systemic adverse effects of dental anaesthesia** • **General Anaesthesia**
5-Teaching and Learning Methods:	• **Lectures** • **clinical**

6-Student Assessment Methods:

Course ILOs	**Teaching methods**		**Assessment methods**				
	Lectures	**clinical**	**Written exams**	**Oral exams**	**Clical exam**	**Quizzes/ assignments**	**Other**
a1	√	√	√	√			
a2	√		√				
a3	√		√				
a4	√		√				
a5	√	√		√			
a6	√	√		√			
b1	√	√		√			
b2	√	√		√			
b3	√	√		√			
b4	√	√		√			
b5	√	√		√			
c1			√	√			
c2		√			√	√	

c3	√		√	√
c4	√		√	√
c5	√		√	√
d1				√
d2				√
d3				√
d4				√

A-Methods Used:	**Continuous assessment:** **Written Examination: at the end of the module 40%** **Clinical exam** **Structured Oral Examination (at the end of the module) 20%**
B-Timing of Assessment:	**- Midterm exam. ..... 6th to 7th weeks** **- Practical exam..... 11th to 12th weeks** **- Written exam ..... 14th to 15th weeks**
C-Distribution of Scores:	**Written Examination 40%** **Oral Examination 20%** **Semester work 20 %** **Total 100%**
7-List of Textbooks and References:	
A-Essential Books	**Ahand book of local anesthesia** **Stanly F Malamed**
C- Periodicals, websites… etc.	

Course Specifications

Code: DEE201	Course Title: Dental Ethics	Academic Level: First Part- Semester 2
Specialty:	Number of Units in the Course: 1 Theoretical - Practical	
2-Course Goals (overall aim):		
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:		
b-Intellectual Skills:		
c-Professional and Practical Skills:		

d-General and Transferable Skills:	
e-Course contribution to program ILOs	**Course ILOs** **Program ILOs** **Knowledge and understanding** **Intellectual skills** **Professional skills** **General and transferrable skills**
4-Course Content:	
5-Teaching and Learning Methods:	
6-Student Assessment Methods:	
A-Methods Used:	
B-Timing of Assessment:	
C-Distribution of Scores:	**Written Examination 40%** **Oral Examination 20%** **Semester work 20 %** **Total 100%**
7-List of Textbooks and References:	
A-Essential Books	
C- Periodicals, websites… etc.	

Course Specifications

1-Course Information		
Code: GPE301	Course Title: General Physical Examination	Academic Level: First Part- Semester 3
Specialty:	Number of Units in the Course: 2 Theoretical Practical	
2-Course Goals (overall aim):	- Train the students ardently to use basic diagnostic procedures and techniques useful in recognizing the disease of the oral and paraoral tissues of local and constitutional origin and their medical management. The subject also includes formulation of the diagnosis and medical management of diseases specific to the orofacial tissues and of oral manifestations of systemic diseases. It also aims towards management of behavioral disorders and oral and dental treatment of medically compromised patients.	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** A1 record a detailed case history and clinical examination of the patient to arrive at a provisional diagnosis. A2 They should have knowledge regarding the chair side and advanced diagnostic methods to formulate final and differential diagnosis. A3 Students should be aware of medical complications that can arise while treating patients and management for the same. They should be able to manage medically compromised patients and modifications in the dental treatment for such patients.	
b-Intellectual Skills:	**By the end of the course every student will be able to:** b1-diagnose various premalignant and malignant lesions and correlate between the main medical disorders and aspects of general medicine and general surgery that may impinge on dental treatment. b2- evaluate the medical problems and formulate accurate	

	hypotheses to serve as the basis of correct diagnosis and treatment . b3-acknowledge the signs and symptoms of a disease based on the underlying gross and microscopic tissue changes.
c-Professional and Practical Skills:	**By the end of the course every student will be able to:** c1- Willing to apply current knowledge in the best interest of the patients and the community. C2 Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life. C3 -To handle the patients with great compassion, explain them the required treatment options and also educate about the preventive aspects of oral diseases. C4-To counsel and educate the population regarding ill effects of habits like betel nut, tobacco, a
d-General and Transferable Skills:	**By the end of the course every student will be able to:** d1-communicate effectively and professionally within a team. d2- retrieve information. d3- develop presentation skills
e-Course contribution to program ILOs	Course ILOs — Program ILOs Knowledge and understanding — A1, A3, A6 Intellectual skills — B2, B5 Professional skills — C1 General and transferrable skills — D7- D9
4-Course Content:	•Definition and importance of Diagnosis and various types of diagnosis General Physical examination by inspection. (b) Oro-facial region by inspection, palpation and other means (c) To train the students about the importance, role, use of saliva and techniques of diagnosis of saliva as part of oral disease (d) Examination of lesions like swellings, ulcers, erosions, sinus, fistula, growths, pigmented lesions, white and red patches (e) Examination of lymph nodes (3) Investigations (a) Biopsy and exfoliative cytology (b) Hematological, Microbiological and other tests and investigations necessary for diagnosis and prognosis
5-Teaching and Learning Methods:	5.1- lectures.

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures		Written exams	Oral exams	Practical exams	Quizzes/	Other

						assign ments	
a1	√		√	√		√	
a2	√		√	√		√	
a2	√		√	√		√	
b1	√		√	√		√	
b2	√		√	√		√	
b3	√		√	√		√	
b4	√		√	√		√	
c1					√	√	
d1						√	
d2						√	
d3						√	

A-Methods Used:	- Written quizzes/tests, multiple choice exams to assess knowledge and understanding - Final written exam to assess their core theoretical knowledge - Oral exam to assess their understanding, communication skills and problem-solving abilities. - Assignments and presentations
B-Timing of Assessment:	- Midterm exam. ..... 6^{th} to 7^{th} week - Written exam ..... 14^{th} to 15^{th} weeks
C-Distribution of Scores:	Written Examination 40% Oral Examination 10% Semester work 30 % **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	
B-Recommended Books:	Color atlas of histopathology , curran & r.c Cross pathology , curranr.c & jones e.l
C- Periodicals, websites… etc.	

Course Specifications

1-Course Information		
Code: IMP302	Course Title: Implantology II	Academic Level: Second Part- Semester 3
Specialty:	Number of Units in the Course: 1 Theoretical 2 Practical	
2-Course Goals (overall aim):	Getting knowledge about dental implantology with emphasis on the surgical aspects of implant dentistry.	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** a1. identify clinical situations demanding tissue augmentation before, during or after implant placement a2. describe procedures which enable the placement of dental implants into sites which require tissue augmentation a3. describe the surgical protocol for different implant sites healed sites, extraction sites, single and multiple implant sites a4. describe the criteria for implant success and failure	
b-Intellectual Skills:	**By the end of the course every student will be able to:** b1- conclude etiologic factors associated with the failure of dental implants. b2- evaluate factors affecting patient satisfaction b3- manage extraction socket for implant placement	
c-Professional and Practical Skills:	**By the end of the course every student will be able to:** c1- utilize basic and advanced surgical instruments and equipment c2- assess dental implant after integration. c3- adopt maintenance program for patients with dental implants in terms of recall intervals, instruction in plaque removal and methods of removing plaque and calculus deposits from implant surfaces.	

	c4- assess and manage failed dental implant/s
d-General and Transferable Skills:	**By the end of the course every student will be able to:** d1. utilize information technology to access appropriate information d2. communicate with patients effectively to improve the oral health status and adherence with health care recommendations d3. communicate and co-ordinate with colleagues effectively to provide optimal oral health care to the patient d4. respond to ongoing dental technology
e-Course contribution to program ILOs	Course ILOs / Program ILOs Knowledge and understanding — A1, A2, A4-A7 Intellectual skills — B1, B2, B4, B7, B8, B10 Professional skills — C2-C4, C6, C9, C11 General and transferrable skills — D2-D4, D7, D9
4-Course Content:	• Case selection, treatment planning protocol and co- ordination of treatment for edentulous and partially edentulous patient's management • Osseointegration and occlusion • Surgical aspects of dental implants • **Surgical Procedures in Implant surgery** Stage I surgery (fixture installation) Stage 2 surgery (fixture uncovering) • **Post-operative Management** Immediate post-operative care Provisional prostheses Surgical protocol for healed and extraction sites • **Tissue augmentation and dental Implant site preparation**
5-Teaching and Learning Methods:	Multidisciplinary

6-Student Assessment Methods:

Course ILOs	Teaching methods: Lectures	Teaching methods: Clinical sessions	Assessment methods: Written exams	Assessment methods: Oral exams	Assessment methods: Practical exams	Assessment methods: Quizzes/ assignments	Assessment methods: Other
a1	√	√	√	√		√	
a2	√	√	√	√		√	
a3	√	√	√	√		√	
a4	√	√	√	√		√	

b1	√	√	√	√		√
b2	√	√	√	√		√
b3	√	√	√	√		√
c1		√			√	√
c2		√			√	√
c3		√			√	√
c4		√			√	√
d1						√
d2						√
d3		√				√
d4						√

A-Methods Used:	1. Continuous assessment of preclinical and clinical coursework 2. Continuous assessment of written assignments 3. Summative assessment of complete logbook 4. Clinical, oral, written examination
B-Timing of Assessment:	- Midterm exam. ..... 6th to 7th weeks - Practical exam..... 11th to 12th weeks - Written exam ..... 14th to 15th weeks
C-Distribution of Scores:	Written Examination 40% Practical Examination 20% Oral Examination 10% Semester work 30 % **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	**Newman & Carranza's clinical periodontology (13th ed)**
B-Recommended Books:	**Clinical Periodontology and Implant Dentistry, 2 Volume Set, 6th Edition**
C- Periodicals, websites… etc.	PubMed, Elsevier, Obesco

Course Coordinator: **Head of Department:**

Date of approval:

Course Specifications

1-Course Information

Code: **IMP302**	**Course Title: Oral & Dentoalveolar Surgery I**	**Academic Level:** **Second Part- Semester 3**
Specialty:	**Number of Units in the Course:** 4 **Theoretical** 6 **Practical**	
2-Course Goals (overall aim):	Gain experience basic surgical principles including different flap designs, techniques of bone removal, and different suture materials. .acquainted with Minor oral surgery techniques • comprehend the Dento alveolar complications. **• Gain experience n the diagnosis and surgical management of common dentoalveolar problems and intra-oral soft tissue** **Management of medically compromised patients** **Management of emergencies in the dental office**	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** **A1 Principles of incisional, excisional and needle biopsy techniques** **Impacted teeth , alveoloplasty, crown lenghthening, endo surgery** **Surgical management of medically compromised patients**	

<table>
<tr><td>b-Intellectual Skills:</td><td>By the end of the course every student will be able to:
b1-Assessment of patients presenting with dento-alveolar and intra oral mucosal signs and symptoms
b2. Confidence in managing patients with medical conditions
b3- evaluate factors affecting patient satisfaction</td></tr>
<tr><td>c-Professional and Practical Skills:</td><td>By the end of the course every student will be able to:
c1- utilize basic and advanced surgical instruments and equipment
c2- acquainted with relative surgical procedures
c3 estimate complications related to systemic conditions.
c4- assess and manage related complications</td></tr>
<tr><td>d-General and Transferable Skills:</td><td>By the end of the course every student will be able to:
d1. utilize information technology to access appropriate information
d2. communicate with patients effectively to improve the oral health status and adherence with health care recommendations
d3. communicate and co-ordinate with colleagues effectively to provide optimal oral health care to the patient
d4. respond to ongoing dental technology</td></tr>
<tr><td>e-Course contribution to program ILOs</td><td><table><tr><th>Course ILOs</th><th>Program ILOs</th></tr><tr><td>Knowledge and understanding</td><td>A1, A2, A4-A7</td></tr><tr><td>Intellectual skills</td><td>B1, B2, B4, B7, B8, B10</td></tr><tr><td>Professional skills</td><td>C2-C4, C6, C9, C11</td></tr><tr><td>General and transferrable skills</td><td>D2-D4, D7, D9</td></tr></table></td></tr>
</table>

4-Course Content:	• **Case selection, treatment planning protocol and co- ordination of treatment for edentulous and partially edentulous patient's management** • **Simple intraoral procedures** • **Oral pathology** • **Management of medically compromised patients**
5-Teaching and Learning Methods:	**Lectures** **Clinical sessions**

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	Clinical sessions	Written exams	Oral exams	Practical exams	Quizzes/ assignments	Other
a1	√	√	√	√		√	
a2	√	√	√	√		√	
a3	√	√	√	√		√	
a4	√	√	√	√		√	
b1	√	√	√	√		√	
b2	√	√	√	√		√	
b3	√	√	√	√		√	
c1		√			√	√	
c2		√			√	√	
c3		√			√	√	

c4	√		√	√
d1				√
d2				√
d3	√			√
d4				√

A-Methods Used:	**Continuous assessment of clinical coursework** **Clinical, oral, written examination** **Continuous assessment of written assignments** **Summative assessment of complete logbook**
B-Timing of Assessment:	**- Midterm exam. ..... 6th to 7th weeks** **- Practical exam..... 11th to 12th weeks** **- Written exam ..... 14th to 15th weeks**
C-Distribution of Scores:	**Written Examination 40%** **Practical Examination 20%** **Oral Examination 10%** **Semester work 30 %** **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	**Clinician's Handbook of Oral and Maxillofacial SurgerySecond Edition** **Daniel M Laskin, Eric R. Carlson Quientessance 2019** **Little and Falace's Dental Management of the Medically Compromised Patient** **10th Edition - January 31, 2023** **Authors: Craig Miller, Nelson L. Rhodus, Nathaniel S Treister, Eric T Stoopler, Alexander Ross Kerr**

Course Specifications

1-Course Information		
Code: **IMP302**	**Course Title: Maxillofacial Surgery**	**Academic Level:** **Second Part- Semester 3**
Specialty:	**Number of Units in the Course:** 4 **Theoretical** ☐ **Practical**	
2-Course Goals (overall aim):	. Maxillofacial Trauma Tmj disorders Surgical intervention of orofacial pathological lesions	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** **A1 list types and treatment of orofacial injuries** **A2 Recognize Tmj disorders and relate treatment procedures** **A3 comprehend management procedures for pathologic lesions**	
b-Intellectual Skills:	**By the end of the course every student will be able to:** **b1-recognize trauma patients** **b2 integrate tmj disorders findings with means of treatment** **b3 classify pathologic lesions and corelate them with surgical interventions**	

<table>
<tr><td></td><td></td></tr>
<tr><td>c-Professional and Practical Skills:</td><td>By the end of the course every student will be able to:
c1- utilize basic and advanced radiographs and gather clinical findings
c2- acquainted with relative surgical procedures
c33 conduct appropriate treatment plan
c4 estimate complications related to systemic conditions.
C5- assess and manage related complications</td></tr>
<tr><td>d-General and Transferable Skills:</td><td>By the end of the course every student will be able to:
d1. utilize information technology to access appropriate information
d2. communicate with patients effectively to improve the oral health status and adherence with health care recommendations
d3. communicate and co-ordinate with colleagues effectively to provide optimal oral health care to the patient
d4. respond to ongoing dental technology</td></tr>
<tr><td>e-Course contribution to program ILOs</td><td><table><tr><th>Course ILOs</th><th>Program ILOs</th></tr><tr><td>Knowledge and understanding</td><td>A1, A2, A4-A7</td></tr><tr><td>Intellectual skills</td><td>B1, B2, B4, B7, B8, B10</td></tr><tr><td>Professional skills</td><td>C2-C4, C6, C9, C11</td></tr><tr><td>General and transferrable skills</td><td>D2-D4, D7, D9</td></tr></table></td></tr>
<tr><td>5-Teaching and Learning Methods:</td><td>Lectures
Clinical sessions</td></tr>
</table>

6-Student Assessment Methods:

Course ILOs	Assessment methods					
	Lectures	Written exams	Oral exams	Quizzes/ assignments	Other	
a1	√	√	√	√		
a2	√	√	√	√		
a3	√	√	√	√		
a4	√	√	√	√		
b1	√	√	√	√		
b2	√	√	√	√		
b3	√	√	√	√		
c1				√		
c2				√		
c3				√		
c4				√		
d1						√
d2						√
d3		√				√
d4						√

A-Methods Used:	**Continuous assessment of coursework , oral, written examination** **Continuous assessment of written assignments**

B-Timing of Assessment:	**- Midterm exam. ..... 6th to 7th weeks** **- Written exam ..... 14th to 15th weeks**
C-Distribution of Scores:	**Written Examination 40%** **Oral Examination 10%** **Semester work 30 %** **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	**Peterson's Principles of Oral and Maxillofacial Surgery** Published by Springer, 2022 **Oral and Maxillofacial SurgeryVolume Set** **3rd Edition - December 26, 2016** **Author: Raymond J. Fonseca**
C- Periodicals, websites… etc.	**PubMed, Elsevier, Obesco**

Course Specifications

1-Course Information		
Code: MFS301	**Course Title: General Anesthesia and ICU (2 weeks in Anesthesia departmentFaculty of Medicine O6U)**	**Academic Level:** **Second Part- Semester 3**
Specialty:	**Number of Units in the Course:** ☐ **Theoretical** 4 **Practical**	
2-Course Goals (overall aim):	**Admission to critical** **Basics of Critical Care Service Model** **Critical Care Workforce Model** **Discharge from critical care unit**	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:		
b-Intellectual Skills:		
c-Professional and Practical Skills:	**By the end of the course every student will be able to:**	

d-General and Transferable Skills:	
e-Course contribution to program ILOs	**Course ILOs** **Program ILOs**
4-Course Content:	
5-Teaching and Learning Methods:	
6-Student Assessment Methods:	
A-Methods Used:	•
B-Timing of Assessment:	-

C-Distribution of Scores:	
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	
C- Periodicals, websites… etc.	

Course Specifications

1-Course Information		
Code: IMP403	**Course Title: Implantology III**	**Academic Level:** **Second Part- Semester 4**
Specialty:	**Number of Units in the Course:** 1 **Theoretical** 2 **Practical**	
2-Course Goals (overall aim):	- **Acquiring skills for performing advanced dental implant procedures including pre-prosthetic surgeries** - **Acquiring skills for Preventing, diagnosing, and managing Implant failure (defined as non-functioning implant or total implant loss)**	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** **a1. describe the latest developments in peri-implant tissue management in the aesthetic zone, for new implants as well as for less than aesthetically satisfactory existing implants.** **a2. describe the peri-implant hard and soft tissue health maintenance protocol**	
b-Intellectual Skills:	**By the end of the course every student will be able to:** **b1. Assess causes of early and delayed crestal bone loss around implant**	

<table>
<tr><td></td><td>b2. evaluate factors improving implant survival</td></tr>
<tr><td>c-Professional and Practical Skills:</td><td>By the end of the course every student will be able to:
c1. diagnose and treat peri-implant complications</td></tr>
<tr><td>d-General and Transferable Skills:</td><td>By the end of the course every student will be able to:
d1.communicate successfully with patients regarding treatment planning, expectations, fears, and fees.
d2. consult with professional colleagues
d3. lead, collaborate, and communicate in multidisciplinary teams concerned with the welfare of patients.</td></tr>
<tr><td>e-Course contribution to program ILOs</td><td><table><tr><th>Course ILOs</th><th>Program ILOs</th></tr><tr><td>Knowledge and understanding</td><td>A1, A2, A4-A7</td></tr><tr><td>Intellectual skills</td><td>B1, B2, B4, B7, B8, B10</td></tr><tr><td>Professional skills</td><td>C2- C6, C9, C11</td></tr><tr><td>General and transferrable skills</td><td>D2-D4, D7, D9</td></tr></table></td></tr>
<tr><td>4-Course Content:</td><td>Hard and soft tissue management for implant insertion in the aesthetic zone
Peri-implant tissue health maintenance protocol
Management of implant complications and the failing implant.
Advanced implant surgery – bone grafting techniques and other augmentation and regenerative procedures.
New developments in the field of timing of implant placement and loading.
Troubleshooting of failed implant restorations.</td></tr>
</table>

5-Teaching and Learning Methods:	

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	Clinical sessions	Written exams	Oral exams	Practical exams	Quizzes/ assignments	Other
a1	√	√	√	√		√	
a2	√	√	√	√		√	
b1	√	√	√	√		√	
b2	√	√	√	√		√	
c1		√			√	√	
d1					√	√	
d2					√	√	
d3						√	

A-Methods Used:	• **Assignments/ presentations** • **Practical exam** • **Final written and oral Examination**
B-Timing of Assessment:	**- Midterm exam. ..... 6th to 7th weeks** **- Practical exam..... 11th to 12th weeks** **- Written & Oral exam ..... 14th to 15th weeks**
C-Distribution of Scores:	**Written Examination 40%** **Practical Examination 20%**

	Oral Examination 10% **Semester work 30 %** **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	**Misch's Contemporary Implant Dentistry** **4th Edition - October 1, 2019** **Author: Randolph Resnik** **Hardback ISBN: 9780323391559**
C- Periodicals, websites… etc.	**PubMed – Elsevier - Obesco**

Course Specifications

1-Course Information

Code: IODS402	**Course Title: Oral & Dentoalveolar surgery II**	Academic Level: Second Part- Semester 4
Specialty:	**Number of Units in the Course:** 2 **Theoretical** 6 **Practical**	
2-Course Goals (overall aim):	Increasing competence in the peri-operative care of the dento alveolar surgical patient 2. Competence in diagnosis and clinical management of orofacial infection 3. Competence in diagnosis and management of orofacial pain 4.Comprehend anatomy and disorders of TMJ	

3-Intended Learning Outcomes (ILOs):

a-Knowledge and Understanding:	**By the end of the course every student will be able to:** A a1 **Assessment of facial and dental pain** **a2 Assessment of dento-facial infection** **a3 management of the airway** **a4 Signs and symptoms of TMJ dysfunction with radiographic interpretation** **a5 Methods of medical and surgical management** **a6 Relevant pharmacology and therapeutics**

<table>
<tr><td></td><td></td></tr>
<tr><td>b-Intellectual Skills:</td><td>By the end of the course every student will be able to:
b1 comprehend heory beyond infection and goals of treatment
b2 aware of principles of Incision and drainage
b3 correlate infection type with appropriate antibiotic
b4 Assess any tmj disorder and outline a treatment plan
b5 participate in conservative management of tmj disorders
b6 full understanding of all surgical techniques and their goals</td></tr>
<tr><td>c-Professional and Practical Skills:</td><td>By the end of the course every student will be able to:
c1. . Perform Intra-oral drainage of abscesses under local or topical anaesthesia
c2 carry out Exposure to the surgical techniques of extra-oral drainage of collections
c3 prescribe appropriate antibiotics
c4. Carry out TMj conservative treatment</td></tr>
<tr><td>d-General and Transferable Skills:</td><td>By the end of the course every student will be able to:
d1.communicate successfully with patients regarding treatment planning, expectations, fears, and fees.
d2. consult with professional colleagues
d3. lead, collaborate, and communicate in multidisciplinary teams concerned with the welfare of patients.</td></tr>
<tr><td>e-Course contribution to program ILOs</td><td><table><tr><th>Course ILOs</th><th>Program ILOs</th></tr><tr><td>Knowledge and understanding</td><td>A1, A2, A4-A7</td></tr><tr><td>Intellectual skills</td><td>B1, B2, B4, B7, B8, B10</td></tr><tr><td>Professional skills</td><td>C2- C6, C9, C11</td></tr><tr><td>General and transferrable skills</td><td>D2-D4, D7, D9</td></tr></table></td></tr>
</table>

4-Course Content:	**Orofacial infection pathogenesis** **Factors affecting spread of infection** **Incision and drainage** **Advanced and life threatening infectious conditions** **Tmj anatomy** **TMj disorders** **Consevative tmj disorders**
5-Teaching and Learning Methods:	

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	Clinical sessions	Written exams	Oral exams	Practical exams	Quizzes/ assignments	Other
a1	√	√	√	√		√	
a2	√	√	√	√		√	
b1	√	√	√	√		√	
b2	√	√	√	√		√	
c1		√			√	√	
d1					√	√	
d2					√	√	
d3						√	

A-Methods Used:	• **Assignments/ presentations** • **Practical exam**

	• **Final written and oral Examination**
B-Timing of Assessment:	**- Midterm exam. ..... 6th to 7th weeks** **- Practical exam..... 11th to 12th weeks** **- Written & Oral exam ..... 14th to 15th weeks**
C-Distribution of Scores:	**Written Examination 40%** **Practical Examination 20%** **Oral Examination 10%** **Semester work 30 %** **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	**Advances in Esthetic Implant Dentistry Hardcover – 1 January 2000** **by abdelsalam elaskary**
. C- Periodicals, websites… etc	**PubMed – Elsevier - Obesco**

Course Specifications

1-Course Information		
Code: MFS402	**Course Title: Maxillofacial surgery II**	**Academic Level: Second Part-** **Semester 4**
Specialty:	**Number of Units in the Course:** 4 **Theoretical** - **Practical**	
2-Course Goals (overall aim):		
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to: A** **A1 management of the airway** **a4 Signs and symptoms of TMJ dysfunction with radiographic interpretation** **a5 Methods of medical and surgical management** **a6 Relevant pharmacology and therapeutics**	
b-Intellectual Skills:	**By the end of the course every student will be able to:** **b1 comprehend heory beyond infection and goals of treatment**	

<table>
<tr><td></td><td>b2 aware of principles of Incision and drainage
b3 correlate infection type with appropriate antibiotic
b4 Assess any tmj disorder and outline a treatment plan
b5 participate in conservative management of tmj disorders
b6 full understanding of all surgical techniques and their goals</td></tr>
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c1. . Perform Intra-oral drainage of abscesses under local or topical anaesthesia
c2 carry out Exposure to the surgical techniques of extra-oral drainage of collections
c3 prescribe appropriate antibiotics
c4. Carry out TMj conservative treatment</td></tr>
<tr><td>d-General and Transferable Skills:</td><td>By the end of the course every student will be able to:
d1.communicate successfully with patients regarding treatment planning, expectations, fears, and fees.
d2. consult with professional colleagues
d3. lead, collaborate, and communicate in multidisciplinary teams concerned with the welfare of patients.</td></tr>
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<tr><td>Intellectual skills</td><td>B1, B2, B4, B7, B8, B10</td></tr>
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</td></tr>
<tr><td>4-Course Content:</td><td>Orofacial infection pathogenesis
Factors affecting spread of infection
Incision and drainage
Advanced and life threatening infectious conditions
Tmj anatomy</td></tr>
</table>

	TMj disorders **Consevative tmj disorders**
5-Teaching and Learning Methods:	

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	**Clinical sessions**	**Written exams**	**Oral exams**	**Practical exams**	**Quizzes/ assignments**	**Other**
a1	√	√	√	√		√	
a2	√	√	√	√		√	
b1	√	√	√	√		√	
b2	√	√	√	√		√	
c1		√			√	√	
d1					√	√	
d2					√	√	
d3						√	

A-Methods Used:	• **Assignments/ presentations** • **Practical exam** • **Final written and oral Examination**
B-Timing of Assessment:	**- Midterm exam. ..... 6th to 7th weeks** **- Practical exam..... 11th to 12th weeks** **- Written & Oral exam ..... 14th to 15th weeks**
C-Distribution of Scores:	**Written Examination 40%** **Practical Examination 20%** **Oral Examination 10%** **Semester work 30 %**

	Total 100%
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	
B-Recommended Books:	**Clinical Periodontology and Implant Dentistry, 2 Volume Set, 6th Edition**
C- Periodicals, websites… etc.	**PubMed – Elsevier - Obesco**

Course Specifications

1-Course Information		
Code: IMP403	**Course Title: clinical implantology Implantology IV**	**Academic Level:** **Second Part- Semester 5**
Specialty:	**Number of Units in the Course:** 2 **Theoretical** 2 **Practical**	
2-Course Goals (overall aim):	- **Propose overall treatment options and formulate detailed treatment plans for dental implants in straight forward and complicated cases,.** - **Demonstrate competency in all the clinical and practical skills needed to practice as an advanced specialist. 1.4.** - **Critically evaluate the current literature, synthesize and generate new hypothesis in the field of study, conduct research project and disseminate the findings of research.** - **Have the professional qualities and attitudes to manage the clinical practice and exhibit superior interpersonal skills** - **Acquiring skills for performing advanced dental implant procedures including pre-prosthetic surgeries** - **Acquiring skills for Preventing, diagnosing, and managing Implant failure (defined as non-functioning implant or total implant loss)**	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** **a1. Demonstrate detailed procedural steps and different treatment options for patient rehabilitation and prosthetic restorations.**	

	a2 Describe the advanced technologies and different new materials and tools used in the field of implantology and prosthetic dentistry **a3. Demonstrate the fundamentals of laboratory procedures for prosthetic restorations.** **A4.Outline the recent literature review, to be acquainted with the updated scientific research findings and evidence based dental information in dental implants and prosthetic dentistry.** **A5 Distinguish The process of developing and managing research projects and thesis**
b-Intellectual Skills:	**By the end of the course every student will be able to:** **b1. Design appropriate sequenced and prioritized treatment plans, that can be modified when necessary, for different cases; after assessing the patients' needs and risk factors for all age groups.** **b2 Formulate plans for long-term maintenance and for managing long term and short term complications of dental implants, as well as, different types of restorations.** **b3.. Apply the knowledge of functional occlusion while diagnosing, planning, preparing and delivering restorations.** **b4. Evaluate research and wide variety type of info, synthesis and generate research hypothesis, then disseminate the findings.**
c-Professional and Practical Skills:	**By the end of the course every student will be able to:** **c1. Handle a variety of dental materials and tools, use advanced technologies and apply new trends in the field of study.** **C2. Manage all intraoperative and postoperative complications.** **C3. Provide postoperative care and follow up.** **C4. Provide comprehensive practice management.** **C5. Perform satisfactory infection control measures at the practice and during surgical procedures.**
d-General and Transferable Skills:	**By the end of the course every student will be able to:** **d1.communicate successfully with patients regarding treatment planning, expectations, fears, and fees.**

	d2. consult with professional colleagues **d3. lead, collaborate, and communicate in multidisciplinary teams concerned with the welfare of patients.**
e-Course contribution to program ILOs	
4-Course Content:	**7. Hard and soft tissue management for implant insertion in the aesthetic zone** **8. Peri-implant tissue health maintenance protocol** **9. Management of implant complications and the failing implant.** **10. Advanced implant surgery – bone grafting techniques and other augmentation and regenerative procedures.** **11. New developments in the field of timing of implant placement and loading.** **12. Troubleshooting of failed implant restorations.**
5-Teaching and Learning Methods:	

Course ILOs	Program ILOs
Knowledge and understanding	**A1, A2, A4-A7**
Intellectual skills	**B1, B2, B4, B7, B8, B10**
Professional skills	**C2- C6, C9, C11**
General and transferrable skills	**D2-D4, D7, D9**

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	Clinical sessions	Written exams	Oral exams	Practical exams	Quizzes/ assignments	Other
a1	√	√	√	√		√	
a2	√	√	√	√		√	
b1	√	√	√	√		√	
b2	√	√	√	√		√	
c1		√			√	√	

d1	√	√
d2	√	√
d3		√

A-Methods Used:	• **Assignments/ presentations** • **Practical exam** • **Final written and oral Examination**
B-Timing of Assessment:	**- Midterm exam. ..... 6th to 7th weeks** **- Practical exam..... 11th to 12th weeks** **- Written & Oral exam ..... 14th to 15th weeks**
C-Distribution of Scores:	**Written Examination 40%** **Practical Examination 20%** **Oral Examination 10%** **Semester work 30 %** **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	**Misch's Contemporary Implant Dentistry** **4th Edition - October 1, 2019** **Author: Randolph Resnik** **Hardback ISBN: 9780323391559**
B-Recommended Books:	**Clinical Periodontology and Implant Dentistry, 2 Volume Set, 6th Edition**
C- Periodicals, websites… etc.	**PubMed – Elsevier - Obesco**

Course specification

1-Course Information		
Code: MFS 503	**Course Title: Maxillofacial Surgery III**	**Academic Level:** **Second Part- Semester 5**
Specialty:	**Number of Units in the Course:** 3 **Theoretical** **Practical**	
2-Course Goals (overall aim):	- **Introduction to ortognathic surgery** - **Advanced orthognathic surgery techniques** - **Role of orthodontist in orthognathic cases** - **Role of other specialities in orthognathic surgery patient**	
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** **a1. Identify skeletal aware problem** **a2.aware of all diagnostic procedures** **a3 orthodontics vs surgery**	
b-Intellectual Skills:	**By the end of the course every student will be able to:**	

<table>
<tr><td></td><td>b1. Design appropriate sequenced and prioritized treatment plans, that can be modified when necessary, for different cases;.
b2 Formulate treatment plan with an orthodontist for orthognathic cases
b3.. patient care and anticipated complications</td></tr>
<tr><td>c-Professional and Practical Skills:</td><td>By the end of the course every student will be able to:
c1. Arrange treatment plan and pick appropriate procedures
C2. Manage all intraoperative and postoperative complications related to surgical procedure.
C3. Provide postoperative care and follow up.
C4. Provide comprehensive practice management.
C5. Perform satisfactory infection control measures at the practice and during surgical procedures.</td></tr>
<tr><td>d-General and Transferable Skills:</td><td>By the end of the course every student will be able to:
d1.communicate successfully with patients regarding treatment planning, expectations, fears, and fees.
d2. consult with professional colleagues
d3. lead, collaborate, and communicate in multidisciplinary teams concerned with the welfare of patients.</td></tr>
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</table>
</td></tr>
<tr><td>4-Course Content:</td><td>1.Preprosthetic aand reconstruction surgery
2.distractors
3.orofacial clefts</td></tr>
<tr><td>5-Teaching and Learning Methods:</td><td></td></tr>
</table>

6-Student Assessment Methods:

Teaching methods	Assessment methods

Course ILOs	Lectures	Written exams	Oral exams	Quizzes/ assignments	Other	
a1	√		√		√	
a2	√		√	√		√
b1	√		√	√		√
b2	√		√	√		√
c1					√	√
d1					√	√
d2					√	√
d3						√

A-Methods Used:	• Assignments/ presentations • Practical exam • Final written and oral Examination
B-Timing of Assessment:	- Midterm exam. ..... 6^{th} to 7^{th} week - Written & Oral exam ..... 14^{th} to 15^{th} weeks
C-Distribution of Scores:	Written Examination 60% Oral Examination 10% Semester work 30 % Total 100%
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	A Textbook of Advanced Oral and Maxillofacial Surgery UBLISHED26 June 2013 DOI10.5772/3316 ISBN978-953-51-1146-7

Course Specifications

1-Course Information

Code: ODS503	**Course Title: Oral and Dentoalveolar surgeryIII**	**Academic Level:** **Second Part- Semester 5**
Specialty:	**Number of Units in the Course:** 2 **Theoretical** 6 **Practical**	
2-Course Goals (overall aim):	- **Aware of all orofacial preprosthetic and Reconstruction procedures** - **Know all Osteodistraction types and uses** - **Orofacial clefts** - **Role of orthodontist in cleft patient** - **Role of all specialties in cleft patients**	

3-Intended Learning Outcomes (ILOs):

a-Knowledge and Understanding:	**By the end of the course every student will be able to:** **a1. Demonstrate detailed procedural steps and different treatment options for patient rehabilitation and prosthetic restorations.** **a2 Describe the advanced technologies and different procedures for distractors** **a3. Demonstrate the fundamentals of orofacial clefts ,stepes ,chronology and treatment**

<table>
<tr><td>b-Intellectual Skills:</td><td>By the end of the course every student will be able to:
b1. Design appropriate sequenced and prioritized treatment plans, that can be modified when necessary, for different cases;.
b2 Formulate treatment plan using distractors
b3.. Apply the knowledge of classifying diagnosis and treatment</td></tr>
<tr><td>c-Professional and Practical Skills:</td><td>By the end of the course every student will be able to:
c1. Arrange treatment plan and pick appropriate graft
C2. Manage all intraoperative and postoperative complications.
C3. Provide postoperative care and follow up.
C4. Provide comprehensive practice management.
C5. Perform satisfactory infection control measures at the practice and during surgical procedures.</td></tr>
<tr><td>d-General and Transferable Skills:</td><td>By the end of the course every student will be able to:
d1.communicate successfully with patients regarding treatment planning, expectations, fears, and fees.
d2. consult with professional colleagues
d3. lead, collaborate, and communicate in multidisciplinary teams concerned with the welfare of patients.</td></tr>
<tr><td>e-Course contribution to program ILOs</td><td><table><tr><th>Course ILOs</th><th>Program ILOs</th></tr><tr><td>Knowledge and understanding</td><td>A1, A2, A4-A7</td></tr><tr><td>Intellectual skills</td><td>B1, B2, B4, B7, B8, B10</td></tr><tr><td>Professional skills</td><td>C2- C6, C9, C11</td></tr><tr><td>General and transferrable skills</td><td>D2-D4, D7, D9</td></tr></table></td></tr>
<tr><td>4-Course Content:</td><td>1.Preprosthetic aand reconstruction surgery
2. distractors
3.orofacial clefts
.</td></tr>
</table>

5-Teaching and Learning Methods:	

6-Student Assessment Methods:

Course ILOs	Teaching methods	Assessment methods			
	Lectures	Written exams	Oral exams	Quizzes/ assignments	Other
a1	√		√	√	
a2	√		√	√	√
b1	√		√	√	√
b2	√		√	√	√
c1				√	√
d1				√	√
d2				√	√
d3					√

A-Methods Used:	• **Assignments/ presentations** • **Practical exam** • **Final written and oral Examination**
B-Timing of Assessment:	**- Midterm exam. ..... 6th to 7th week** **- Written & Oral exam ..... 14th to 15th weeks**
C-Distribution of Scores:	**Written Examination 60%** **Oral Examination 10%** **Semester work 30 %** **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	**A Textbook of Advanced Oral and Maxillofacial Surgery** **UBLISHED26 June 2013** **DOI10.5772/3316**

	ISBN978-953-51-1146-7
C- Periodicals, websites… etc.	**PubMed – Elsevier - Obesco**

Maxillofacial rotation attending Operations under GA

+pre and post patient care

Emergency (2 weeks in Emergency department- Faculty of Medicine O6U)

School of medecine

Elective Course

course specification

1-Course Information

Code: ODS503	**Course Title: Differential diagnosis in oral and maxillofacial surgery**	**Academic Level:** **Second Part- Semester 6**
Specialty:	**Number of Units in the Course:** ☒ **Theoretical** ☐	
2-Course Goals (overall aim):	- **Diiferential diagnosis white lesions** - **Diiferential diagnosis red lesions** - **Diiferential diagnosis facial swellings** - **Diiferential diagnosis maxillary swellings** - **Diiferential diagnosis mandibular swellings** - **Diiferential diagnosis neck**	

3-Intended Learning Outcomes (ILOs):

a-Knowledge and Understanding:	**By the end of the course every student will be able to:** **a1. Compare intraoral lesions** **a2 Differentiate between facial swellings** **a3. Compare neck welling**
b-Intellectual Skills:	**By the end of the course every student will be able to:** **b1. Design sequential diagnostic procedure** **b2 augment primary diagnosis with advanced procedure**
c-Professional and Practical Skills:	**By the end of the course every student will be able to:** **c1. Arrange diagnostic chart** **C3. Provide postoperative care and follow up.**

d-General and Transferable Skills:	**By the end of the course every student will be able to:** **d1.communicate successfully with patients regarding treatment planning, expectations, fears, and fees.** **d2. consult with professional colleagues** **d3. lead, collaborate, and communicate in multidisciplinary teams concerned with the welfare of patients.**
e-Course contribution to program ILOs	**Course ILOs** / **Program ILOs** **Knowledge and understanding** / **A1, A2, A4-A7** **Intellectual skills** / **B1, B2, B4, B7, B8, B10** **Professional skills** / **C2- C6, C9, C11** **General and transferrable skills** / **D2-D4, D7, D9**
4-Course Content:	**1.soft tissue injuries** **2. soft tissue grafts** **3.blood transfusion**
5-Teaching and Learning Methods:	**Lectures** **Clinical sessions**

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods			
	Lectures	Practical	Oral exams	Quizzes/ assignments	Other	Practical exam
a1	√		√		√	
a2	√		√	√		√
b1	√		√	√		√
b2	√		√	√		√
c1					√	√
d1					√	√

d2	√	√
d3		√

A-Methods Used:	• **Assignments/ presentation** • **Final written and oral Examination**
B-Timing of Assessment:	**- Midterm exam. ..... 6th to 7th week** **- Written & Oral exam ..... 14th to 15th weeks**
C-Distribution of Scores:	**Written Examination 60%** **Oral Examination 10%** **Semester work 30 %** **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	**A Textbook of Advanced Oral and Maxillofacial Surgery** **UBLISHED26 June 2013** **DOI10.5772/3316** **ISBN978-953-51-1146-7**
C- Periodicals, websites… etc.	**PubMed – Elsevier - Obesco**

Course Specifications

1-Course Information		
Code: IMP 605	**Course Title: clinical implantology 5**	**Academic Level: Second Part-** **Semester 4**
Specialty:	**Number of Units in the Course:** 2 **Theoretical** 2 **Practical**	
2-Course Goals (overall aim):		
3-Intended Learning Outcomes (ILOs):		
a-Knowledge and Understanding:	**By the end of the course every student will be able to:** **A1. Identify All Advancements in the field of implantology such as three-dimensional imaging, implant-planning software,** **A2 Acknowledge computer-aided-design/computer-aided-manufacturing (CAD/CAM) technology,** **A3 collect the science of computer-guided, and navigated implant surgery**	
b-Intellectual Skills:		
c-Professional and Practical Skills:	**By the end of the course every student will be able to:** **c1. Develop strong acquaintance with all artificial intelligence appliances** **c2 knows how and when to use apply recent modalities for the welfare of the patient**	

d-General and Transferable Skills:	**By the end of the course every student will be able to:** **d1.communicate successfully with patients regarding treatment planning, expectations, fears, and fees.** **d2. consult with professional colleagues** **d3. lead, collaborate, and communicate in multidisciplinary teams concerned with the welfare of patients.**
e-Course contribution to program ILOs	**Course ILOs** / **Program ILOs** **Knowledge and understanding** / **A1, A2, A4-A7** **Intellectual skills** / **B1, B2, B4, B7, B8, B10** **Professional skills** / **C2- C6, C9, C11** **General and transferrable skills** / **D2-D4, D7, D9**
4-Course Content:	**Arificial intelligence in implantology** **three-dimensional imaging,** **implant-planning software,** **computer-aided-design/** **computer-aided-manufacturing (CAD/CAM) technology,**
5-Teaching and Learning Methods:	**Lectures** **Clinical sessions**

6-Student Assessment Methods:

Course ILOs	Teaching methods		Assessment methods				
	Lectures	Clinical sessions	Written exams	Oral exams	Practical exams	Quizzes/ assignments	Other
a1	√	√	√	√		√	
a2	√	√	√	√		√	
b1	√	√	√	√		√	

b2	√	√	√	√		√
c1		√			√	√
d1					√	√
d2					√	√
d3						√

A-Methods Used:	• **Assignments/ presentations** • **Practical exam** • **Final written and oral Examination**
B-Timing of Assessment:	**- Midterm exam. ..... 6th to 7th weeks** **- Practical exam..... 11th to 12th weeks** **- Written & Oral exam ..... 14th to 15th weeks**
C-Distribution of Scores:	**Written Examination 40%** **Practical Examination 20%** **Oral Examination 10%** **Semester work 30 %** **Total 100%**
7-List of Textbooks and References:	
A-Essential Books (Textbooks):	**Contemporary Implant Dentistry, 3e** Carl E Mesch** **Publisher: Elsevier,** **Publication Year: 2008,** **Advances in Esthetic Implant Dentistry Hardcover – 1 January 2000** **Abdelsalam Al Askary** **Wiley Blackwell**
C- Periodicals, websites… etc.	**PubMed – Elsevier – Obesco**

Oral & Maxillofacial Surgery Literature III

OML 603

Will be adjusted accordingly

Oral & Maxillofacial Surgery (Rotation II)

OMR 602

Will be adjusted accordingly

Elective course