

**University / Academy: Future University in Egypt**

**Faculty / Institute: Oral and Dental Medicine**

**Department: Oral and Maxillofacial Surgery**

**Program specification**  
**(Academic year 2016/2017)**

**A. Basic information:**

1. Program Name: Master of Dental Science (Oral and Maxillofacial Surgery)
2. Nature of the program: (single)
3. Department responsible for the program: Oral and Maxillofacial Surgery
4. Departments sharing in the program:
  - Oral Biology and Oral Histology
  - Supplementary General Sciences
  - Oral medicine, periodontology, diagnosis and radiology
  - Oral and Maxillofacial Surgery
5. Program coordinator: Prof. Dr. Ahmed Barakat
6. Internal evaluator: A. Prof. Nelly Hammouda
7. External evaluator: prof. Mostafa Ezz
8. Date of approval of the specification:
  - 14/3/2016 (postgraduate affairs)
  - 21/ 3 / 2016 (faculty council 47)
9. Date of approval of the program: 23 / 12 /2013 (Ministry of Higher Education No. 4794)

## **B. professional Information:**

### **1. Overall aims of the program:**

**The graduates of master Program of Oral & Maxillofacial Surgery should be capable of:**

- 1.1. Mastering the application of the basics and methodologies of scientific research and the use of its various tools.
- 1.2. Application of the diagnostic modalities and its use in Oral & Maxillofacial Surgery
- 1.3. Applying oral and maxillofacial knowledge and integrate it with relevant knowledge in oral tumors.
- 1.4. Mastering the Classical and state of the art oral and maxillofacial surgical procedures.
- 1.5. Demonstrating awareness of surgical problems and modern visions in the area of implantology.
- 1.6. Mastering an appropriate range of technical and management skills in diagnosis and recent treatment modalities, to serve practice in Oral & Maxillofacial Trauma.
- 1.7. Effective communication and be able to lead teams.
- 1.8. Decision-making in different medical emergencies in dental clinic and theater room and emergency room.
- 1.9. Maintain the available resources to achieve the highest utilization and to aid in the development of a well capable oral and maxillofacial surgeon with a strong background in hospital protocol and the care of the hospitalized patient.
- 1.10. Show awareness of its role in the development of society and the preservation of the environment in the light of global and regional changes.
- 1.11. Commitment to integrity, credibility and adherence to the rules of oral and maxillofacial surgery in health care.
- 1.12. Self-development academically and professionally and capable of continuous learning.

## **2. intended learning outcomes of the program:**

### ***2/A Knowledge and understanding:***

***By the end of the program the graduate of Oral & Maxillofacial Surgery master degree should be able to:***

- A.1.** Identify the theories and fundamentals related to oral & maxillofacial surgery, normal and abnormal craniofacial structure, diagnosis and immunity.
- A.2.** Discuss the mutual influence between safe oral maxillofacial practice and its reflection on the environment.
- A.3.** Review scientific developments in the diagnosis and management of oral & maxillofacial disorders.
- A.4.** Express ethical and legal principles of professional practice in oral & maxillofacial surgery
- A.5.** Identify principles and basics of quality in professional practice in oral & maxillofacial surgery
- A.6.** Explain the basics and ethics of scientific research.

### ***2/B intellectual skills:***

***By the end of the program the graduate of Oral & Maxillofacial Surgery master degree should be able to:***

- B.1** Analyze and evaluate information and measurement from different diagnostic modalities in oral & maxillofacial surgery for problem solving.
- B.2** Solve oral maxillofacial surgical problems with minimal data available.
- B.3** Link anatomical, immunological, and diagnostic knowledge to differentiate between pathological lesions of oral cavity.
- B.4** Design and systematic review study on a research problem.
- B.5** Assess the risk in different treatment modalities in oral & maxillofacial surgeries.
- B.6** Plan for the development of performance in oral & maxillofacial surgery.
- B.7** Make professional decisions in management of oral & maxillofacial disorders.

### ***2/C practical and clinical Skills:***

***By the end of the program the graduate of Oral & Maxillofacial Surgery master degree should be able to:***

- C.1** Mastering basic and modern professional skills in management of different disorders.
- C.2** Mastering basic and modern professional skills in implantology and bone grafting techniques

C.3 Write professional case reports, prescriptions and evaluate radiographic reports, research or other related investigations.

C.4 Evaluate of existing methods and modern tools in oral & maxillofacial surgery.

## **2/D General and transferrable Skills:**

*By the end of the program the graduate of Oral & Maxillofacial Surgery master degree should be able to:*

D.1 Communicate effectively with dental auxiliaries and patients.

D.2 Use information technology to serve professional practice.

D.3 Self-assess and identify personal learning needs.

D.4 Use different sources for access to oral and maxillofacial information and knowledge.

D.5 Develop rules and indicators for evaluating the performance of nurses, assistances, and interns.

D.6 Work in a team, lead teams in different professional contexts.

D.7 Manage time efficiently.

D.8 Conduct self-learning and continuous education.

## **3. Program academic standards:**

Academic standards of master degree program of Oral and Maxillofacial Surgery

- Approved in department council on 6/7/2015
- Approved in faculty council no (40) on 10/8/2015

## **4. References standards:**

- Academic reference standards ARS, master program (March 2009) issued by NAQAAE
- External reference standards (bench mark): Cairo University

## **5. Program Structure and contents:**

### **A. Duration of Program: minimum 2 years.**

- 1<sup>st</sup> part : 2 semesters: 1 year
- 2<sup>nd</sup> part: 2 semesters: 1 year
- Thesis: minimum 1 year after completion of 1<sup>st</sup> part

## B. Structure of the Program:

Number of hours / number of units:

- Total credit : theoretical  practical and clinical   
Thesis  credit hour, elective  credit hour
- Compulsory  selective  elective
- Basic science courses:  credit hour %
- Specialization courses:  credit hour  %
- Other Courses elective  credit hour  %
- Thesis:  credit hour %

## C) Program levels

- First part: Passage required ...36... Unit distributed as follows:
- Compulsory.....32..... Selective.....0..... Elective....4....
- Second part: Passing.....20..... Unit (distributed as follows:
- Compulsory.....20..... Selective....0..... Elective....0.....

## Program Courses:

### A - compulsory:

#### 1st part (1st. semester)

Course Code	Course Name	credit hour	Number of weekly hours	
			Practical	Theoretical
601	Oral Pathology	3	2	2
603	Oral Histology & Embryology	3	2	2
605	General Anatomy	3	2	2
611	Oral Radiology	2	2	1
627	General Surgery & E.N.T.	2	2	1
631	Immunology	1	-	1
635	Diagnosis	2	2	1

**1st part (2nd. semester)**

Course Code	Course Name	credit hour	Number of weekly hours	
			Practical	Theoretical
602	Oral Pathology	3	2	2
604	Oral Histology & Embryology	3	2	2
606	General Anatomy	3	2	2
612	Oral Radiology	2	2	1
628	General Surgery & E.N.T.	2	2	1
632	Immunology	1	-	1
636	Diagnosis	2	2	1

**2nd part (1st. semester)**

Course Code	Course Name	credit hour	Number of weekly hours	
			Practical	Theoretical
737	Oral Surgery	4	4	2
739	General anesthesia & local anesthesia	2	2	1
741	Maxillofacial Surgery	4	4	2

**2<sup>nd</sup> part (2<sup>nd</sup>. semester)**

Course Code	Course Name	credit hour	Number of weekly hours	
			Practical	Theoretical
738	Oral Surgery	4	4	2
740	General anesthesia & local anesthesia	2	2	1
742	Maxillofacial Surgery	4	4	2

**B. Selective: none**

**C. Elective:** Student chooses 2 Elective courses (4 credit hours) out of the following courses during first or second part.

كيمياء حيوية , زراعة الأسنان , تطبيقات الليزر فى طب اسنان , الطوارئ الطبية لطب الأسنان

Passage of the 4 credit hours should be done any time within the program year.

## 7- Program admission and requirements:

١. أن يكون المتقدم حاصلًا على درجة البكالوريوس في طب وجراحة الفم والأسنان من إحدى كليات طب الأسنان بجمهورية مصر العربية أو على درجة معادلة لها من قبل المجلس الأعلى للجامعات بتقدير جيد على الأقل في التقدير العام وجيد في مادة التخصص المراد الالتحاق بدراستها. ويجوز قبول لدراسة الماجستير الطلاب الحاصلين على دبلوم التخصص المراد الالتحاق به بتقدير عام جيد على الأقل وجيد جدا في مادة التخصص.
٢. يجوز كذلك القبول في الفروع الأكاديمية بالشروط نفسها في البند السابق من هذه المادة على الوجه التالي:-
  - أ- ماجستير بثالوجيا وماجستير بيولوجيا الفم من الحاصلين على دبلوم التخصص الإكلينيكي لطب الفم وعلاج اللثة.
  - ب- ماجستير خواص المواد من الحاصلين على دبلوم التخصص الإكلينيكي للاستعاضة الصناعية للأسنان أو للعلاج التحفظي للأسنان أو التيجان و الجسور أو علاج الجذور.
٣. أن يكون قد مضى سنتين على الأقل من تاريخ التخرج بشرط أن يكون قد أمضى السنة الاجبارية للتدريب (الامتياز).
٤. موافقة جهة العمل للمتقدم على قيده لدرجة الماجستير وكذلك موافقتها على تفرغ الطالب طوال مدة الدراسة.
٥. موافقة مجلس القسم المختص.
٦. أن يقدم الطالب طلبا متضمنا جميع المستندات المذكورة في بنود هذه المادة باسم السيد الدكتور عميد الكلية خلال المدة من أول يوليو حتى نهايته من العام المراد القيد به لهذه الدرجة، ولا تقبل أى إستثناءات بعد هذا التاريخ مهما كانت الأسباب، وبالنسبة للأجانب تطبق القواعد المعمول بها من قبل المجلس الاعلي للجامعة.
٧. يشترط ان يكون الطالب غير مقيد باي درجة من درجات الدراسات العليا.

## 8. Rules governing the completion of the program:

- أن يتابع الطالب بصفة مرضية جميع المقررات الدراسية المنصوص عليها في اللائحة حسب كل تخصص وان يحقق نسبة حضور لا تقل عن ٧٥% في كل مقرر و الا حرم من دخول الامتحان في ذلك المقرر.
- أن يؤدي الطالب جميع المتطلبات الدراسية التي يحددها مجلس كل قسم من المقررات الدراسية المقرر دراستها في اللائحة و الا حرم من دخول الامتحان في ذلك المقرر.
- يشترط لنجاح الطالب اجتياز جميع الامتحانات المقررة المنصوص عليها في اللائحة حسب كل تخصص طبقا لنظام الساعات المعتمدة.
- يشترط لنجاح الطالب في اي مقرر من السنة الدراسية الاولى ( الجزء الاول) ان يحصل علي درجة لا تقل عن ٦٠% من النهاية العظمي لمجموع درجات المقرر، وعلي الا يقل ما يحصل عليه في الامتحان التحريري والشفهي والعملي عن ٦٠% من النهاية العظمي لمجموع الدرجات في المقرر كل امتحان علي حدة.
- يشترط لنجاح الطالب في اي مقرر من السنة الدراسية الثانية ( الجزء الثاني) ان يحصل علي درجة لا تقل عن ٦٠% من النهاية العظمي لمجموع الدرجات في المقرر، و علي الا يقل ما يحصل عليه في الامتحان التحريري و الشفهي و العملي و الاكلينيكي عن ٦٠% من النهاية العظمي لمجموع الدرجات في المقرر (كل امتحان علي حدة).
- يعد الطالب راسبا اذا تغيب عن دخول اي امتحان او جزء منة بدون عذر قهري يقبله مجلس الكلية تبعاً لما هو محدد بقرارات الجامعة.
- يكون الطالب الراسب في احد جزئي درجة الماجستير (الاول و الثاني) فيما رسب فيه من مقررات فقط.

- يمكن للطالب الراسب في بعض مقررات فصل دراسي أن يدرس بعض مقررات الفصل الدراسي التالي على أن يقوم بأداء إمتحانات مواد الرسوب مع إمتحانات الفصل التالي.

### 9–Students Assessment Methods:

Intended learning outcomes	Methods	م
<ul style="list-style-type: none"> <li>• Knowledge and understanding</li> <li>• intellectual skills</li> </ul>	Written examination	1
<ul style="list-style-type: none"> <li>• Knowledge and understanding</li> <li>• intellectual skills</li> <li>• General and transferrable Skills</li> </ul>	Oral examination	2
<ul style="list-style-type: none"> <li>• Knowledge and understanding</li> <li>• intellectual skills</li> <li>• practical / clinical Skills</li> <li>• General and transferrable Skills</li> </ul>	Practical / clinical examination	3
<ul style="list-style-type: none"> <li>• Knowledge and understanding</li> <li>• intellectual skills</li> <li>• practical / clinical Skills</li> <li>• General and transferrable Skills</li> </ul>	Thesis	4

### 10- Evaluation of the program:

Evaluator	Tools	Sample
Internal evaluator (s)	<ul style="list-style-type: none"> <li>• reports</li> </ul>	1-2 Reports
External Evaluator (s)	<ul style="list-style-type: none"> <li>• reports</li> </ul>	1-2 Reports
Senior student (s)	Meetings and questionnaires	All students
Alumni	Meetings and questionnaires	Not less than 50% of students last 3 years
Stakeholder (s)	Meetings and questionnaires	Samples represent different sectors

### 11- Teaching and learning strategies:

- Active learning
- Outcome- based learning
- Problem-based learning

**Program coordinator: Prof. Dr. Ahmed Barakat**

**Head of department: Prof. Dr. Ahmed Barakat**



## الملاحق :

ملحق ١ : program Academic standard

ملحق ٢: المعايير القياسية العامة للدراسات العليا الصادرة عن الهيئة.

ملحق ٣: مصفوفة المعايير الأكاديمية للبرنامج مع المعايير القياسية للدراسات العليا الصادرة عن الهيئة.

ملحق ٤: مصفوفة البرنامج مع المعايير الأكاديمية للبرنامج.

ملحق ٥: مصفوفة اهداف ونواتج تعلم البرنامج

ملحق ٦: مصفوفة المقررات مع البرنامج Program-Courses ILOs Matrix

ملحق ٧: توصيف المقررات

**ملحق ١: program Academic standard:**

**Academic Reference Standards (ARS)**

**for**

**MS. Program of Oral & Maxillofacial Surgery**

**Faculty of oral and dental medicine, Future University**

## **Academic Reference Standards (ARS) for master Program of Oral & Maxillofacial Surgery**

### **1. Graduate attributes:**

The graduates of master Program of Oral & Maxillofacial Surgery graduates should be capable of:

- 1.1. Mastering the application of the basics and methodologies of scientific research and the use of its various tools.
- 1.2. Application of the diagnostic modalities and its use in Oral & Maxillofacial Surgery
- 1.3. Apply specialized knowledge and integrate it with relevant knowledge in oral tumors.
- 1.4. Mastering the Classical and state of the art oral and maxillofacial surgical procedures.
- 1.5. Demonstrate awareness of current problems and modern visions in the area of implantology.
- 1.6. Mastering an appropriate range of specialized professional skills, to serve practice in Oral & Maxillofacial Trauma.
- 1.7. Communicate effectively and be able to lead teams.
- 1.8. Decision-making in different medical emergencies in dental clinic and theater room and emergency room.
- 1.9. Utilize and maintain the available resources to achieve the highest utilization and to aid in the development of a well- rounded and capable oral and maxillofacial surgeon with a strong background in Hospital protocol and the care of the hospitalized patient.
- 1.10. Show awareness of its role in the development of society and the preservation of the environment in the light of global and regional changes.
- 1.11. Conduct to reflect the commitment to integrity, credibility and adherence to the rules of oral and maxillofacial surgery in health care.
- 1.12. Self-development academically and professionally and capable of continuous learning.

## **2. General Reference Standards:**

### **A. Knowledge and Understanding**

*The Oral & Maxillofacial Surgery master program graduates should demonstrate knowledge and understanding of:*

- A.1. The theories and fundamentals related to oral & maxillofacial surgery as well as related basic sciences.
- A.2. The mutual influence between professional practice and its reflection on the environment.
- A.3. Scientific developments in the diagnosis and management of oral & maxillofacial disorders.
- A.4. Ethical and legal principles of professional practice in oral & maxillofacial surgery
- A.5. Principles and basics of quality in professional practice in oral & maxillofacial surgery
- A.6. The basics and ethics of scientific research.

### **B. Intellectual Skills**

*By the end of the program the Oral & Maxillofacial Surgery master degree graduates should be capable of:*

- B.1. Analysis and evaluation of information surgery and measurement from different diagnostic modalities in oral & maxillofacial surgery for problem solving.
- B.2. Solving specialized problems with no data available.
- B.3. Linking different knowledge to differentiate between pathological lesions of oral cavity.
- B.4. Conduct a research study and / or write a systematic scientific study on a research problem.
- B.5. Risk assessment in different treatment modalities in oral & maxillofacial surgeries.
- B.6. Planning for the development of performance in oral & maxillofacial surgery .
- B.7. Making professional decisions in management of oral & maxillofacial disorders.

### **C. Practical and Professional Skills**

*By the end of the program the Oral & Maxillofacial Surgery master degree graduates should be capable of:*

- C.1 Master basic and modern diagnostic and surgical skills in management of different disorders and implantology and bone grafting techniques.
- C.2 Writing and evaluating professional reports.
- C.3 Evaluation of existing methods and tools in oral & maxillofacial surgery.

## **D. General and Transferable Skills**

*By the end of the program the Oral & Maxillofacial Surgery master degree graduates should be* capable of:

- D.1. Effective communication of different types.
- D.2. Use of information technology to serve professional practice.
- D.3. Self-assessment and identification of personal learning needs.
- D.4. Use of different sources for access to information and knowledge.
- D.5. Develop rules and indicators for evaluating the performance of others.
- D.6. Working in a team, leading teams in different professional contexts.
- D.7. Time management efficiently.
- D.8. Self-learning and continuous.

## ملحق ٢: المعايير القياسية العامة للدراسات العليا الصادرة عن الهيئة.

### برامج الماجستير

#### ١- مواصفات الخريج :

- خريج برنامج الماجستير في أي تخصص يجب أن يكون قادرا على:
- ١,١ إجادة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام أدواته المختلفة.
  - ٢,١ تطبيق المنهج التحليلي واستخدامه في مجال التخصص.
  - ٣,١ تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة في ممارسته المهنية.
  - ٤,١ إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص.
  - ٥,١ تحديد المشكلات المهنية وإيجاد حلول لها.
  - ٦,١ إتقان نطاق مناسب من المهارات المهنية المتخصصة، واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية.
  - ٧,١ التواصل بفاعلية والقدرة على قيادة فرق العمل.
  - ٨,١ اتخاذ القرار في سياقات مهنية مختلفة.
  - ٩,١ توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها.
  - ١٠,١ إظهار الوعي بدوره في تنمية المجتمع والحفاظ على البيئة في ضوء المتغيرات العالمية والإقليمية.
  - ١١,١ التصرف بما يعكس الالتزام بالنزاهة والمصداقية والالتزام بقواعد المهنة.
  - ١٢,١ تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر.

#### ٢- المعايير القياسية العامة :

##### ٢.١ المعرفة والفهم :

بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج على فهم و دراية بكل من:

- ١,١,٢ النظريات والأساسيات المتعلقة بمجال التعلم وكذا في المجالات ذات العلاقة.
- ٢,١,٢ التأثير المتبادل بين الممارسة المهنية وانعكاسها علي البيئة.
- ٣,١,٢ التطورات العلمية في مجال التخصص.
- ٤,١,٢ المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص.
- ٥,١,٢ مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص.
- ٦,١,٢ أساسيات وأخلاقيات البحث العلمي.

##### ٢.٢ المهارات الذهنية :

بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:

- ١,٢,٢ تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل.
- ٢,٢,٢ حل المشاكل المتخصصة مع عدم توافر بعض المعطيات.
- ٣,٢,٢ الربط بين المعارف المختلفة لحل المشاكل المهنية.
- ٤,٢,٢ إجراء دراسة بحثية و/أو كتابة دراسة علمية منهجية حول مشكلة بحثية.
- ٥,٢,٢ تقييم المخاطر في الممارسات المهنية في مجال التخصص.
- ٦,٢,٢ التخطيط لتطوير الأداء في مجال التخصص.
- ٧,٢,٢ اتخاذ القرارات المهنية في سياقات مهنية متنوعة.

## ٣.٢ المهارات المهنية :

بإنتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:

إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص.	١,٣,٢
كتابة و تقييم التقارير المهنية.	٢,٣,٢
تقييم الطرق والأدوات القائمة في مجال التخصص.	٣,٣,٢

## ٤.٢ المهارات العامة والمنتقلة :

بإنتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:

التواصل الفعال بأنواعه المختلفة.	١,٤,٢
استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية.	٢,٤,٢
التقييم الذاتي وتحديد احتياجاته التعليمية الشخصية.	٣,٤,٢
استخدام المصادر المختلفة للحصول على المعلومات والمعارف.	٤,٤,٢
وضع قواعد ومؤشرات تقييم أداء الآخرين.	٥,٤,٢
العمل في فريق، وقيادة فرق في سياقات مهنية مختلفة.	٦,٤,٢
إدارة الوقت بكفاءة.	٧,٤,٢
التعلم الذاتي والمستمر.	٨,٤,٢

ملحق ٣: مصفوفة المعايير الأكاديمية للبرنامج  
مع المعايير القياسية للدراسات العليا الصادرة عن الهيئة.

١. مواصفات الخريج:

مواصفات الخريج بالمعايير الأكاديمية للبرنامج Graduate attributes of the program	مواصفات الخريج بالمعايير القياسية العامة لبرامج الدراسات العليا (درجة الماجستير) الهيئة ARS
1.1	١,١ إجادة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام أدواته المختلفة.
1.2	٢,١ تطبيق المنهج التحليلي واستخدامه في مجال التخصص.
1.3	٣,١ تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة في ممارسته المهنية.
1,4	٤,١ إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص.
1.5	٥,١ تحديد المشكلات المهنية وإيجاد حلول لها.
1.6	٦,١ إتقان نطاق مناسب من المهارات المهنية المتخصصة، واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية.
1.7	٧,١ التواصل بفاعلية والقدرة على قيادة فرق العمل.
1.8	٨,١ اتخاذ القرار في سياقات مهنية مختلفة.
1.9	٩,١ توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها.
1.10	١٠,١ إظهار الوعي بدوره في تنمية المجتمع والحفاظ على البيئة في ضوء المتغيرات العالمية والإقليمية.
1.11	١١,١ التصرف بما يعكس الالتزام بالنزاهة والمصداقية والالتزام بقواعد المهنة.
1.12	١٢,١ تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر.



## أ - المعرفة والفهم:

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الماجستير)
A.1	١,١,٢ النظريات والأساسيات المتعلقة بمجال التعلم وكذا في المجالات ذات العلاقة.
A.2	٢,١,٢ التأثير المتبادل بين الممارسة المهنية وانعكاسها على البيئة.
A.3	٣,١,٢ التطورات العلمية في مجال التخصص.
A.4	٤,١,٢ المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص.
A.5	٥,١,٢ مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص.
A.6	٦,١,٢ أساسيات وأخلاقيات البحث العلمي.

## ب - المهارات الذهنية :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الماجستير)
B1	١,٢,٢ تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل.
B2	٢,٢,٢ حل المشاكل المتخصصة مع عدم توافر بعض المعطيات.
B3	٣,٢,٢ الربط بين المعارف المختلفة لحل المشاكل المهنية.
B4	٤,٢,٢ إجراء دراسة بحثية و/أو كتابة دراسة علمية منهجية حول مشكلة بحثية.
B5	٥,٢,٢ تقييم المخاطر في الممارسات المهنية في مجال التخصص.
B6	٦,٢,٢ التخطيط لتطوير الأداء في مجال التخصص.
B7	٧,٢,٢ اتخاذ القرارات المهنية في سياقات مهنية متنوعة.

ج. مهارات مهنية وعملية :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الماجستير)
C1	١,٣,٢ إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص.
C2	٢,٣,٢ كتابة و تقييم التقارير المهنية.
C3	٣,٣,٢ تقييم الطرق والأدوات القائمة في مجال التخصص.

د . مهارات عامة و منتقلة :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الماجستير)
D1	١,٤,٢ التواصل الفعال بأنواعه المختلفة.
D2	٢,٤,٢ استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية.
D3	٣,٤,٢ التقييم الذاتي وتحديد احتياجاته التعليمية الشخصية.
D4	٤,٤,٢ استخدام المصادر المختلفة للحصول على المعلومات والمعارف.
D5	٥,٤,٢ وضع قواعد ومؤشرات تقييم أداء الآخرين.
D6	٦,٤,٢ العمل في فريق، وقيادة فرق في سياقات مهنية مختلفة.
D7	٧,٤,٢ إدارة الوقت بكفاءة.
D8	٨,٤,٢ التعلم الذاتي والمستمر.

**ملحق ٤: مصفوفة البرنامج مع المعايير الأكاديمية للبرنامج.**

Over all Aims of the program أهداف البرنامج	مواصفات الخريج ARS البرنامج
1.1	1.1. Mastering the application of the basics and methodologies of scientific research and the use of its various tools.
1.2	1.2 Application of the diagnostic modalities and its use in Oral & Maxillofacial Surgery
1.3	1.3 Apply specialized knowledge and integrate it with relevant knowledge in oral tumors
1.4	1.4 Mastering the Classical and state of the art oral and maxillofacial surgical procedures
1.5	1.5 Demonstrate awareness of current problems and modern visions in the area of implantology.
1.6	1.6 Mastering an appropriate range of specialized professional skills, to serve practice in Oral & Maxillofacial Trauma.
1.7	1.7 Communicate effectively and be able to lead teams
1.8	1.8 Decision-making in different medical emergencies in dental clinic and theater room and emergency room.
1.9	1.9 Utilize and maintain the available resources to achieve the highest utilization and to aid in the development of a well-rounded and capable oral and maxillofacial surgeon with a strong background in Hospital protocol and the care of the hospitalized patient.
1.10	1.10 Show awareness of its role in the development of society and the preservation of the environment in the light of global and regional changes.
1.11	1.11 Conduct to reflect the commitment to integrity, credibility and adherence to the rules of oral and maxillofacial surgery in health care.
1.12	1.12 Self-development academically and professionally and capable of continuous learning.

نواتج تعلم البرنامج Knowledge & understanding							Knowledge & understanding المعايير الأكاديمية البرنامج ARS	
المعرفة و الفهم								
							2.a.1.	
							*	2.1.1.
							*	2.1.2.
							*	2.1.3..
							*	2.1.4.
						*		2.1.5.
						*		2.1.6.

نواتج تعلم البرنامج							المعايير الأكاديمية للبرنامج المهارات الذهنية البرنامج ARS	
Intellectual skills								
							2.b.1.	
							*	2.2.1.
							*	2.2.2.
							*	2.2.3.
						*		2.2.4.
						*		2.2.5..
					*			2.2.6.
				*				2.2.7.

نواتج تعلم البرنامج										المعايير الأكاديمية للبرنامج المهارات المهنية البرنامج ARS		
Practical/Professional skills												
							2.2.4	2.c.3	2.c.2.	2.c.1.		
									*	*	2.3.1.	
								*			2.3.2.	
							*				2.2.3.	

نواتج تعلم البرنامج										المعايير الأكاديمية للبرنامج المهارات العامة والمنتقلة البرنامج ARS		
General and transferable skill												
										2.d.1.		
										*	2.4.1.	
									*		2.4.2.	
								*			2.4.3..	
								*			2.4.4.	
							*				2.4.5.	
						*					2.4.6.	
					*						2.4.7..	
				*							2.4.8..	

ملحق ٥: مصفوفة اهداف ونواتج تعلم البرنامج

نواتج تعلم البرنامج Knowledge & understanding											Program aims	
المعرفة و الفهم												
						2.a.6	2.a.5	2.a.4	2.a.3	2.a.2	2.a.1	
						#						1.1. Mastering the application of the basics and methodologies of scientific research and the use of its various tools.
									#		#	1.2. Application of the diagnostic modalities and its use in Oral & Maxillofacial Surgery
									#		#	1.3. Applying oral and maxillofacial knowledge and integrate it with relevant knowledge in oral tumors.
												1.4. Mastering the Classical and state of the art oral and maxillofacial surgical procedures.
												1.5. Demonstrating awareness of current problems and modern visions in the area of implantology.
									#	#		1.6. Mastering an appropriate range of specialized professional skills in diagnosis and recent treatment modalities, to serve practice in Oral & Maxillofacial Trauma.
										#		1.7. Effective communication and be able to lead teams.
									#			1.8. Decision-making in different medical emergencies in dental clinic and theater room and emergency room.
								#				1.9. Maintain the available resources to achieve the highest utilization and to aid in the development of a well capable oral and maxillofacial surgeon with a strong background in hospital protocol and the care of the hospitalized patient.
										#		1.10. Show awareness of its role in the development of society and the preservation of the environment in the light of global and regional changes.

								#		#	1.11. Commitment to integrity, credibility and adherence to the rules of oral and maxillofacial surgery in health care.
										#	1.12. Self-development academically and professionally and capable of continuous learning.

نواتج تعلم البرنامج										Program aims	
Intellectual skills											
				2.b.7	2.b.6	2.b.5	2.b.4	2.b.3	2.b.2.	2.b.1.	
								#	#	#	1.2. Mastering the application of the basics and methodologies of scientific research and the use of its various tools.
					#			#		#	1.3. Application of the diagnostic modalities and its use in Oral & Maxillofacial Surgery
				#	#	#		#			1.4. Applying oral and maxillofacial knowledge and integrate it with relevant knowledge in oral tumors.
						#					1.5. Mastering the Classical and state of the art oral and maxillofacial surgical procedures.
				#	#			#			1.6. Demonstrating awareness of current problems and modern visions in the area of implantology.
						#			#	#	1.7. Mastering an appropriate range of specialized professional skills in diagnosis and recent treatment modalities, to serve practice in Oral & Maxillofacial Trauma.
				#							1.8. Effective communication and be able to lead teams.
								#			1.9. Decision-making in different medical emergencies in dental clinic and theater room and emergency room.
						#					1.10. Maintain the available resources to achieve the highest utilization and to aid in the development of a well capable oral and maxillofacial surgeon with a strong background in hospital protocol and the care of the hospitalized patient.

										1.11. Show awareness of its role in the development of society and the preservation of the environment in the light of global and regional changes.
										1.12. Commitment to integrity, credibility and adherence to the rules of oral and maxillofacial surgery in health care.

نواتج تعلم البرنامج										Program aims	
Practical/Professional skills											
							2.c.4	2.c.3	2.c.2.	2.c.1.	
								#	#	#	1.1. Mastering the application of the basics and methodologies of scientific research and the use of its various tools.
							#	#	#	#	1.2. Application of the diagnostic modalities and its use in Oral & Maxillofacial Surgery
							#		#	#	1.3. Applying oral and maxillofacial knowledge and integrate it with relevant knowledge in oral tumors.
							#		#	#	1.4. Mastering the Classical and state of the art oral and maxillofacial surgical procedures.
								#	#	#	1.5. Demonstrating awareness of current problems and modern visions in the area of implantology.
							#		#	#	1.6. Mastering an appropriate range of specialized professional skills in diagnosis and recent treatment modalities, to serve practice in Oral & Maxillofacial Trauma.
											1.7. Effective communication and be able to lead teams.
								#	#	#	1.8. Decision-making in different medical emergencies in dental clinic and theater room and emergency room.



							#				1.9. Maintain the available resources to achieve the highest utilization and to aid in the development of a well capable oral and maxillofacial surgeon with a strong background in hospital protocol and the care of the hospitalized patient.	
											1.10. Show awareness of its role in the development of society and the preservation of the environment in the light of global and regional changes.	
											1.11. Commitment to integrity, credibility and adherence to the rules of oral and maxillofacial surgery in health care.	
											1.12. Self-development academically and professionally and capable of continuous learning.	
نواتج تعلم البرنامج										Program aims		
General and transferable skill												
				2.d.8	2.d.7	2.d.6	2.d.5	2.d.4	2.d.3			2.d.2.
						#		#		#		1.1. Mastering the application of the basics and methodologies of scientific research and the use of its various tools.
												1.2. Application of the diagnostic modalities and its use in Oral & Maxillofacial Surgery
												1.3. Applying oral and maxillofacial knowledge and integrate it with relevant knowledge in oral tumors.
					#	#	#					1.4. Mastering the Classical and state of the art oral and maxillofacial surgical procedures.
								#				1.5. Demonstrating awareness of current problems and modern visions in the area of implantology.
												1.6. Mastering an appropriate range of specialized professional skills in diagnosis and recent treatment modalities, to serve practice in Oral & Maxillofacial Trauma.
						#					#	1.7. Effective communication and be able to lead teams.

					#				#			1.8. Decision-making in different medical emergencies in dental clinic and theater room and emergency room.
				#				#		#		1.9. Maintain the available resources to achieve the highest utilization and to aid in the development of a well capable oral and maxillofacial surgeon with a strong background in hospital protocol and the care of the hospitalized patient.
							#				#	1.10. Show awareness of its role in the development of society and the preservation of the environment in the light of global and regional changes.
							#					1.11. Commitment to integrity, credibility and adherence to the rules of oral and maxillofacial surgery in health care.
				#					#	#		1.12. Self-development academically and professionally and capable of continuous learning.

ملحق ٦: مصفوفة المقررات مع البرنامج

**Program-Courses ILOs Matrix**

Knowledge & Understanding المعارف							ILOs	
2.a.1	2.a.2	2.a.3	2.a.4	2.a.5	2.a.6	All Courses & codes		
		*				601/602	Oral pathology	
	*					603/604	Oral histology	
			*			605/606	Human anatomy	
				*		627/628	General surgery and ENT	
		*				635/636	Diagnosis	
	*					631/632	Immunology	
						611/612	Oral radiology	
		*	*	*	*	737/738	Oral Surgery	
		*	*	*	*	739/740	General anesthesia & local anesthesia	
		*	*	*	*	741/742	Maxillofacial Surgery	

Intellectual Skills مهارات ذهنية							ILOs		
2.b.1	2.b.2	2.b.3	2.b.4	2.b.5	2.b.6	2.b.7	All Courses & codes		
*	*	*		*		*	601/602	Oral pathology	
		*					603/604	Oral histology	
				*		*	605/606	Human anatomy	
	*					*	627/628	General surgery and ENT	
		*		*	*	*	635/636	Diagnosis	
			*				631/632	immunology	
	*		*		*	*	611/612	Oral radiology	

*	*	*	*	*	*	*	*	737/738	Oral Surgery
*	*	*	*	*	*	*	*	739/740	General anesthesia & local
*	*	*	*	*	*	*	*	741/742	Maxillofacial Surgery

Practical & Clinical Skills مهارات عملية و مهنية								ILOs	
								All Courses & codes	
2.c.1	2.c.2	2.c.3	2.c.4	2.c.5	2.c.6	2.c.7			
		*						601/602	Oral pathology
		*						603/604	Oral histology
								605/606	Human anatomy
	*							627/628	General surgery and ENT
	*	*	*					635/636	Diagnosis
								631/632	immunology
	*	*	*					611/612	Oral radiology
	*	*	*					737/738	Oral Surgery
			*					739/740	General anesthesia & local anesthesia
	*	*	*					741/742	Maxillofacial Surgery

General and transferable مهارات عامة								ILOs	
								All Courses & codes	
2.d.1	2.d.2	2.d.3	2.d.4	2.d.5	2.d.6	2.d.7	2.d.8		Courses
*			*		*			601/602	Oral pathology
*								603/604	Oral histology
								605/606	Human anatomy
						*		627/628	General surgery and ENT
		*		*	*	*		635/636	Diagnosis
*		*						631/632	immunology

*		*		*		*		611/612	<b>Oral radiology</b>
*	*	*	*	*		*	*	737/738	<b>Oral Surgery</b>
*	*	*		*		*	*	739/740	<b>General anesthesia &amp; local anesthesia</b>
*	*	*	*	*		*	*	741/742	<b>Maxillofacial Surgery</b>

**Program coordinator: Ahmad Barakat**

**Signature:**

**Date: / 3 / 2016**

**Head of department: Ahmad Barakat**

**Signature:**

**Date: / 3 /2016**

**First part courses**

**University:** Future University in Egypt

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** oral biology and oral pathology department

***Course Specification***

1- Basic Information		
<b>Course Title:</b> oral pathology	<b>Course Code:</b> 601	<b>Level:</b> 1 <sup>st</sup> part master`s degree
<b>Master degree in:</b> All specialties	Credit Hours: 3Theoretical:2 Practical:2	

<b>2- Aim of the course:</b>	<ol style="list-style-type: none"> <li>1. To explain all structural, morphological and numerical alterations affecting hard dental tissues.</li> <li>2. To understand the biological process of dental caries and the role of bacteria, CHO and saliva.</li> <li>3. To classify different types of pulp inflammation.</li> </ol>
<b>3- Intended Learning Outcomes of Course (ILO):</b>	
<b>By the end of the course, post graduate student should be able to:</b>	
<b>a) Knowledge and understanding :</b>	<ol style="list-style-type: none"> <li>a.1 Discuss basic oral pathological terminology that may be encountered by all specialists in the dental practice.</li> <li>a.2 Classify developmental disturbances affecting the shape, structure and number of teeth.</li> <li>a.3 Explain the biological process of dental caries and the role of bacteria, CHO and saliva.</li> <li>a.4 Categorize types of pulp diseases.</li> <li>a.5 Identify the clinical signs &amp; symptoms of pulp inflammation</li> </ol>
<b>b) Intellectual Skills:</b>	<ol style="list-style-type: none"> <li>b1- Differentiate between the developmental disturbances affecting shape, structure and number of teeth.</li> <li>b2- Connect between factors affecting dental caries (bacteria, CHO and saliva) and caries progression.</li> <li>b3- Distinguish between different types of pulpitis according to the clinical signs and symptoms and classify them into focal reversible pulpitis, acute and chronic pulpitis.</li> </ol>

<b>c) Professional and Practical Skills:</b>	<p>c1- Rank the structural and morphological defects affecting teeth.</p> <p>c2- Evaluate dental caries and its sequelae</p> <p>c3- Prioritize types of pulpitis based on clinical signs and symptoms and plan the treatment of each.</p>
<b>d) General and transferable skills</b>	<p>d1- Demonstrate appropriate professional attitudes and behavior in dealing with staff members &amp; helping personnel .</p> <p>d2- Communicate effectively both verbally and in writing with other health care professionals to maximize patient benefits and minimize the risk of errors.</p> <p>d3- Apply the information technology as a means of communication for data collection and analysis and for life – long learning .</p> <p>d4- Identify the socioeconomic , cultural , geographical &amp; occupational factors that may influence etiology of oral pathological conditions and the impact of disease on the community</p>

<b>4- Course Contents:</b>	<ul style="list-style-type: none"> <li>• Developmental disturbances affecting the number and size of teeth.</li> <li>• Developmental disturbances affecting the shape, structure of teeth and eruption disorders.</li> <li>• Dental caries <ul style="list-style-type: none"> <li>- Etiology, role of bacteria, CHO and saliva.</li> <li>- Pathology of dental caries.</li> </ul> </li> <li>• Pulp diseases:- <ul style="list-style-type: none"> <li>- Etiology and classification.</li> <li>- Focal reversible pulpitis</li> <li>- Acute and chronic pulpitis.</li> </ul> </li> </ul>
<b>5- Teaching and Learning Methods</b>	<ul style="list-style-type: none"> <li>• Lectures with discussions (interactive lectures), Data show presentation, brain storming,</li> <li>• practical sessions: Microscopic slides:</li> <li>• Demonstration using computer projection</li> <li>• Discussion and practice of the skill of identification of microscopic slides.</li> </ul>

<b>6- Teaching and Learning Methods for special needs students</b>	Individual (one on one classes with one of the TA`s or lecturers during hours agreed upon by the student and the staff members)
<b>7- Student Assessment</b>	
<b>a) Assessment Methods</b>	<ul style="list-style-type: none"> <li>• written examination to assess knowledge and understanding and assessment of general intellectual skills</li> <li>• Multiple choice questions to assess knowledge and understanding and assessment of general intellectual skills</li> <li>• Oral examination to assess knowledge and understanding (and assessment of practical skills &amp; assessment of general intellectual skills )</li> <li>• Practical examination to assess knowledge and understanding and assessment of practical skills and assessment of general intellectual skills</li> </ul>
<b>b) Assessment Schedule</b>	Midterm written exam Final written exam (at the end of the semester) Final practical exam (at the end of the semester) Final oral exam(at the end of the semester)
<b>c) Weighting of Assessment</b>	Midterm written exam (30 marks of 150) Final written exam (60 marks of 150) Final practical exam (30 marks of 150) Final oral exam (30 marks of 150)
<b>8- list of References</b>	
<b>a) Course Notes</b>	The lecture notes are available (based on the latest edition of `oral and maxillofacial pathology / Neville)
<b>b) Essential Books (Text Books)</b>	Brad Neville, Doglas d. dam, Carl allen, et al 2015, Oral and Maxillofacial pathology 4 <sup>th</sup> ed., Sanders.
<b>c) Recommended Books</b>	Colored Atlas of oral pathology
<b>d) Scientific periodicals, bulletins, etc.....</b>	

*Course Coordinator: Dr. Adham Hussein Fahmy*

*Head of Department: prof. Rehab Abdulmoneim*

*Date: / 3 /2016*



**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** oral biology and oral pathology department

### **Course Specification**

<b>1- Basic Information</b>		
<b>Course Title:</b> Oral histology 1	<b>Course Code:</b> 603	<b>Level:</b> 1 <sup>st</sup> part – 1 <sup>st</sup> semester
<b>Master degree in:</b> Orthodontics Fixed prosthetic dentistry Operative dentistry Prosthetic dentistry Oral and maxillofacial surgery	<i>Credit Hours: 3</i> <i>Theoretical:2</i> <i>Practical:2</i>	
<b>2- Aim of the course:</b>	<ul style="list-style-type: none"> <li>• To keep pace with recent advances and to provide an expanded knowledge about histology, embryology and physiology of tooth, enamel and dentine.</li> <li>• To serve as a basis for understanding the clinical courses such as oral pathology, oral surgery and oral medicine</li> </ul>	
<b>3- Intended Learning Outcomes of Course (ILO) :</b>		
<b>By the end of the course, post graduate student should be able to:</b>		
<b>a) Knowledge and understanding:</b>	<ol style="list-style-type: none"> <li>1- Identify embryogenesis &amp; histology of dento-alveolar complex.</li> <li>2- Describe the structure and the function of some different hard dental and para-dental tissues.</li> <li>3- Recall the life cycle of the tooth starting from development to eruption and subsequent shedding.</li> <li>4- Explain the clinical significance associated with certain dental hard and oral structures.</li> <li>5- Describe the histological age changes of some dental and para-dental oral tissues.</li> </ol>	
<b>b) Intellectual Skills:</b>	<ol style="list-style-type: none"> <li>1. Predict the different stages of tooth development.</li> <li>2. Differentiate between the different oral and dental tissues.</li> <li>3. Distinguish any age changes or abnormalities that might affect some normal dental and oral tissues.</li> </ol>	

<b>c) Professional and Practical Skills:</b>	<ol style="list-style-type: none"> <li>1. Interpret the different dental &amp; para-dental tissues.</li> <li>2. Draw the histological structure of some hard dental tissues and para- dental soft tissues.</li> </ol>
<b>d) General and transferable skills</b>	<ol style="list-style-type: none"> <li>1. Communicate effectively with colleagues and interact in teamwork.</li> <li>2. Demonstrate appropriate professional attitude and behavior in different situations.</li> <li>3. Manage time effectively.</li> </ol>

<b>4- Course Contents:</b>	<ul style="list-style-type: none"> <li>• Tooth development</li> <li>• Enamel</li> <li>• Dentin</li> <li>• Periodontal ligament</li> <li>• Bone Tissue and Alveolar process</li> <li>• Salivary Glands and Saliva</li> <li>• Oral Mucosa Membrane</li> </ul>
<b>5- Teaching and Learning Methods</b>	<ol style="list-style-type: none"> <li>1- Interactive lectures: including power point data show, videos and brain storming.</li> <li>2- Practical and small group sessions: Each practical session is preceded by slide demonstration, description and drawing of oral tissues.</li> <li>3- Class discussions.</li> <li>4- Drawing in the practical books under supervision of the responsible staff members.</li> </ol>
<b>6- Teaching and Learning Methods for special needs students</b>	<p>Direct observation Individual teaching</p>

7- Student Assessment											
<b>a) Assessment Methods</b>	1- Written examination to assess knowledge and understanding and intellectual skills. 2- Oral examination to assess knowledge and understanding and intellectual skills and attitude. 3- Practical examination to assess practical skills & intellectual skills & general skills. 4- Practical book to assess practical skills. 5- Research assignments. 6- Presentations and seminars .										
<b>b) Assessment Schedule</b>	Final term										
<b>c) Weighting of Assessment</b>	<table border="0" style="width: 100%;"> <tr> <td style="text-align: right;">Final term Examination</td> <td style="text-align: right;">90</td> </tr> <tr> <td style="text-align: right;">Oral Examination</td> <td style="text-align: right;">30</td> </tr> <tr> <td style="text-align: right;">Practical Examination</td> <td style="text-align: right;">30</td> </tr> <tr> <td colspan="2"><hr/></td> </tr> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">150</td> </tr> </table>	Final term Examination	90	Oral Examination	30	Practical Examination	30	<hr/>		Total	150
Final term Examination	90										
Oral Examination	30										
Practical Examination	30										
<hr/>											
Total	150										

7- List of References	
<b>a) Course Notes</b>	*Department handouts
<b>b) Essential Books (Text Books)</b>	Mary Bath-Balogh, Margaret J. Fehrenbach, Dental Embryology Histology and anatomy. Ten Cate's Oral Histology Development, Structure and Function.
<b>c) Recommended Books</b>	-----
<b>d) Scientific periodicals, bulletins, etc.....</b>	Websites related to the study subject: Science direct- Pub Med

**Course Coordinator: Rehab Abdul Moneim**  
**Head of Department: Rehab Abdul Moneim**  
**Date: / 3 /2016**

*University: Future University in Egypt.*  
*Faculty: Faculty of Oral and Dental Medicine*  
*Department: general supplementary sciences*

***Course Specification***

<b><i>1- Basic Information</i></b>		
<b><i>Course Title: Anatomy of head</i></b>	<b><i>Course Code: 605</i></b>	<b><i>Level: Part I, First semester</i></b>
<b><i>Master degree in: All specialties except public health</i></b>	<b><i>Credit Hours: Theoretical: 2 Practical: 1</i></b>	
<b><i>2- Aim of the course:</i></b>	<ul style="list-style-type: none"> <li>• To apply anatomical facts while examining the living subject to reach the proper diagnosis.</li> <li>• To identify the different surface markings of head with determining the position of muscles and their actions and the course of nerves and vessels.</li> <li>• To interpret the normal anatomical structures of head on radiographs of different regions of head.</li> <li>• To get familiar with normal patterns of paranasal sinuses of the widely used radiographs and CT of sinuses.</li> <li>• To provide appropriate ethical and professional education necessary for dealing with cadavers.</li> <li>• To correlate anatomical facts with its clinical application.</li> </ul>	
<b><i>3- Intended Learning Outcomes of Course (ILO) :</i></b> <b><i>By the end of the course, post graduate student should be able to:</i></b>		
<b><i>a. Knowledge and understanding :</i></b>	<ol style="list-style-type: none"> <li>1- Discuss the basic principles of the structure of different muscles, nerves, vessels, and glands of head.</li> <li>2- Describe the surface landmarks of the underlying bony features of skull and mandible</li> <li>3- Point out the basic features of muscles, nerves, vessels and glands of the head.</li> <li>4- Outline major clinical applications in the core syllabus of anatomical facts.</li> </ol>	

<p><b><i>b. Intellectual Skills:</i></b></p>	<p>1- Correlate anatomy of different parts of head with the surface markings in determining the position or course of internal structures of the head.</p> <p>2- Discuss the clinical significance of muscle actions and results of injury of nerves and vessels of the head.</p>
<p><b><i>c. Professional and Practical Skills:</i></b></p>	<p>1- Apply the learned anatomical facts while examining living subject to reach the proper diagnosis.</p> <p>2- Identify the different muscles, glands, major vessels and nerves in human cadavers.</p> <p>3- Interpret radiograph and C.T images.</p>
<p><b><i>d. General and transferable skills</i></b></p>	<p>1- Maintain honesty and integrity in all interactions with teachers, colleagues, patients and others with whom dentists/oral surgeons must interact with in their professional lives.</p> <p>2- Appreciate their role as well as the necessity of seeking the collaboration of other workers on as needed basis.</p> <p>3- Take responsibility towards all work rules and regulations.</p> <p>4- Maintain emotional stability in all unusual stressful situations.</p>

#### 4- Course Contents:

- Skull: General and particular features: - Bones forming the skull ( name, position and parts of each)- Major foramina and fissures with structures passing, clinical points as commonly fractured areas: (3 hours)
- Mandible: Parts, features, muscles and ligaments attached to it, nerves, vessels and glands related. Foramina in the mandible with passing structures. Common sites of fracture.: (1 hour).
- Scalp: definition, layers, nerve, blood supply and lymph drainage as well as significant clinical points. (1 hour)
- Face: muscles of facial expression, motor and sensory nerve supply of face, blood supply and lymph drainage. Description of dangerous area of face. (2 hours)
- Facial nerve: Course, branches and results of extracranial injury. (1 hour)
- Parotid gland: site, extension, parts, capsule, relations, blood supply, nerve supply effect of its inflammation on embedded structures. (1 hour)
- Temporal, infratemporal and pterygoplatine fossae: Boundaries and contents. Muscles of mastication, mandibular nerve, maxillary nerve, maxillary artery, pterygoid venous plexus and sphenopalatine ganglion. (3 hours)
- Temporomandibular joint: Type, variety, articular bones, capsule, ligaments, intra-capsular disc, analysis of the joint movements. Dislocation: causes, site of dislocated head of mandible and how to fix it. (1 hour)
- Cranial cavity: Dural folds, dural venous sinuses, pituitary gland and intracranial course of internal carotid artery. Effects of enlargement of pituitary gland. (2 hours)
- Nasal cavity: Boundaries, parts, nasal septum, features of lateral wall and related orifices, blood and nerve supply. (2 hours)
- Paranasal sinuses: site, number, boundaries and effects of its inflammation). Relation between *maxillary* sinusitis and abscesses related to roots of premolar and molar teeth of upper jaw. (1 hour)
- Oral cavity: parts, Boundaries, *contents, nerve and blood supply. (1 hour)*

- *Tongue: site, shape, parts, muscles, nerve supply and blood supply. Effect of injury of its motor nerve*

<p><b>5- Teaching and Learning Methods</b></p>	<ol style="list-style-type: none"> <li>1. Didactic Lectures: for acquisition of course knowledge, one two-hour lecture per week.</li> <li>2. Practical classes: including practical demonstration on dissected specimen and radiological films in the dissecting room, one two-hour session per week.</li> <li>3. Tutorial classes: 2 hours weekly before dissecting a major region and a brief discussion by the end of each practical lesson.</li> <li>4. Self-Assessment: As appropriate, self-assessment questions in the form of short essay and/or MCQs.</li> </ol>
<p><b>6- Teaching and Learning Methods for special needs students</b></p>	<p>----</p>
<p><b>7- Student Assessment</b></p>	
<p><b>a) Assessment Methods</b></p>	<ol style="list-style-type: none"> <li>1. Written examination: (2) hours Assessment of Knowledge and understanding in the form of essay, MCQ and fill in the blanks questions.</li> <li>2. Oral examination: (10-15) minutes Assessment of understanding of pre-identified knowledge.</li> <li>3. Practical examinations: Three minutes per station for a total of 10 stations, testing Identification Knowledge of different anatomical structures on bones and human cadaver.</li> <li>4. Logbook Assessment of practical activities.</li> </ol>
<p><b>b) Assessment Schedule</b></p>	<p><i>Assessment 1: MCQ Quiz exam</i>  <i>Assessment 2: Mid Term Exam (Essay, fill in the blanks, and MCQ)</i>  <i>Assessment 3: MCQ Quiz exam</i>  <i>Assessment 4: Practical exam</i>  <i>Assessment 5: Oral exam</i>  <i>Assessment 6: Final written exam</i></p>
<p><b>c) Weighting of Assessment</b></p>	<p style="text-align: center;"><i>Assessment 1: 2.0 %</i>  <i>Assessment 2: 6.0 %</i>  <i>Assessment 3: 2.0 %</i>  <i>Assessment 4: 10.0 %</i>  <i>Assessment 5: 20.0 %</i>  <i>Assessment 6: 60.0 %</i></p>

<b>8- List of References</b>	
<b>a) Course Notes</b>	<b>Available in hard copy</b>
<b>b) Essential Books (Text Books)</b>	<b>Netter's Head and Neck Anatomy for Dentistry.</b>
<b>c) Recommended Books</b>	<b>1-Gray's Anatomy for student 2-Cunningham's Text Book of Anatomy</b>
<b>d) Scientific periodicals, bulletins, etc.....</b>	

**Course Coordinator: Dr. Sherif Fahmy Arsanyos**

**Head of Department: Dr. Nagwa Roshdy**

**Date: /3 /2016**



**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** Oral medicine, periodontology, diagnosis and radiology

**Course Specification**

<b>1- Basic Information</b>		
<b>Course Title: oral radiology</b>	<b>Course Code:</b> ٦١١	<b>Level: 1<sup>st</sup> year master degree</b>
<b>Master degree in:</b>	Credit Hours: 3/ Theoretical: 2/Practical: 2	
<b>2- Aim of the course:</b>	<ol style="list-style-type: none"><li>1. To provide the students with information related to <b>radiological sciences</b> including radiation physics, image production, and possible errors</li><li>2. To enable the students to understand and use the <b>dental radiography equipment</b> such as machine, different types of image receptors and processing methods</li><li>3. To train students to <b>clinical imaging sciences</b> including conventional intra oral, digital radiography, head and neck imaging, panoramic imaging</li></ol>	

**3- Intended Learning Outcomes of Course (ILO) :****By the end of the course, post graduate student should be able to:**

<b>a. Knowledge and understanding :</b>	<ol style="list-style-type: none"><li>1- explain radiation physics, including X-rays production, different components of X-ray machine and the various properties of X-rays</li><li>2- Discuss how images are produced and identify different image characteristics as density, contrast, sharpness and resolution. Illustrate all factors affecting these characteristics.</li><li>3- Identify types of radiographic films by size, number and speed (intra-oral and extra-oral). Explain the underlying principles of the use of screens and discuss its different types and structure.</li><li>4- Explain the principles of all the intra oral radiographic techniques</li><li>5- Describe how images are produced by processing and describe different processing techniques and chemicals.</li><li>6- Identify the digital radiography systems and their advantages and uses.</li><li>7- Explain the principles of extra-oral radiographic techniques and understand their indications.</li><li>8- Identify different radiographic pitfalls, their causes and method of overcome.</li></ol>
<b>b. Intellectual Skills:</b>	<ol style="list-style-type: none"><li>1- Make decisions regarding proper radiographic prescription.</li><li>2- Formulate complete radiographic report for intraoral CMS, panoramic and extra oral radiographs.</li></ol>
<b>c. Professional and Practical Skills:</b>	<ol style="list-style-type: none"><li>1- Apply their knowledge and skills in radiographic techniques and processing to acquire excellent diagnostic quality radiographs</li><li>2- Complete full mouth periapical, bitewing, and occlusal survey images (CMS) for adults and children.</li></ol>

<b>d. General and transferable skills</b>	<ol style="list-style-type: none"> <li>1- Demonstrate appropriate professional attitudes and behavior in different situations toward patients, colleagues and supervisors.</li> <li>2- Provide empathic care for all patients without discrimination.</li> <li>3- Assess Regularly one's knowledge and skills, and seek additional information to correct deficiencies and enhance performance.</li> <li>4- Implement and monitor infection control and environmental safety programs according to current standard</li> </ol>
<b>4- Course Contents:</b>	<ul style="list-style-type: none"> <li>• X ray machine and production of x ray</li> <li>• Dental film</li> <li>• Digital radiography</li> <li>• IO techniques periapical, bitewing and occlusal EO views</li> <li>• Panoramic radiography (principle, technique)</li> <li>• Processing techniques</li> <li>• Common technique and processing errors</li> <li>• Processing</li> <li>• IO landmarks(maxilla)</li> <li>• IO landmarks(mandible)</li> <li>• Object localization and exercises</li> <li>• Infection control</li> <li>• EO landmarks</li> <li>• Panoramic anatomy</li> <li>• Panoramic errors</li> </ul>
<b>5- Teaching and Learning Methods</b>	<ul style="list-style-type: none"> <li>• Lectures by PPS presentations</li> <li>• Clinical training:</li> <li>• Demonstrations and videos</li> <li>• Work sheets and surveys</li> <li>• Report back sessions</li> <li>• rotations in radiology department</li> <li>• literature review seminars</li> <li>• Group work, team work, and self-presentation</li> </ul>
<b>6- Teaching and Learning Methods for special needs students</b>	<p style="text-align: center;">-----</p>

<b>7- Student Assessment</b>	
<b>d) Assessment Methods</b>	<ul style="list-style-type: none"> <li>• formative quizzes</li> <li>• clinical requirements, and reports</li> <li>• Final Written exam</li> <li>• Final Oral exam</li> <li>• Final clinical exam</li> </ul>
<b>e) Assessment Schedule</b>	<ul style="list-style-type: none"> <li>• First midterm exam(week5)</li> <li>• Second midterm exam(week10)</li> <li>• Practical exam( week 12)</li> <li>• Oral exam ( end of semester)</li> <li>• Final written exam( end of semester)</li> </ul>
<b>f) Weighting of Assessment</b>	<ul style="list-style-type: none"> <li>• Midterm written exam (20%)</li> <li>• Practical exam (20%)</li> <li>• Oral exam (20%)</li> <li>• Final written exam (40%)</li> </ul>
<b>8- List of References</b>	
<b>e) Course Notes</b>	Course notes available PPS available for the students from the department
<b>f) Essential Books (Text Books)</b>	Stuart C. White, DDS, PhD and Michael J. Pharoah, DDS, Oral Radiology, 7th Edition 2014 , Principles and Interpretation
<b>g) Recommended Books</b>	Eric Waites , Essentials of dental radiography and radiology, 5 <sup>th</sup> ed 2013
<b>h) Scientific periodicals, bulletins, etc.....</b>	Journal of maxillofacial radiology <a href="http://www.joomr.org/">http://www.joomr.org/</a>

**Course Coordinator: prof Gihan Omar**

**Head of Department: Prof Shahira Elashery**

**3/2016**

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** General supplementary sciences

### ***Course Specification***

<b>1- Basic Information</b>		
<b>Course Name:</b> General Surgery and ENT	<b>Course Code:</b> 627	<b>Level:</b> First semester, first part
<b>Master degree in:</b> Oral Surgery	Credit Hours: Theoretical:2 Practical:...	

<b>2- Aim of the course:</b>	<ul style="list-style-type: none"><li>• To provide the student with the basic surgical knowledge of general surgery.</li><li>• To enable the student to detect Surgical emergencies and life threatening disorders at an early stage.</li><li>• To provide the student with the appropriate surgical principles, professional surgical attitude, and proper application of diagnostic and therapeutic surgical rules.</li></ul>
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<b>3- Intended Learning Outcomes of Course (ILO):</b> By the end of the course, post graduate student should be able to:	
<b>a. Knowledge and understanding :</b>	<ol style="list-style-type: none"><li>1- Explain the surgical physiology and pathophysiological changes in general surgical disorders.</li><li>2- Discuss the common general surgical disorders and its etiology, pathology, clinical features, and complications.</li><li>3- Describe and apply the management rules of common general surgical disorders.</li><li>4- Identify the preventive and screening protocols for common and serious disorders.</li><li>5- Discuss basic principles of simple general surgical and lifesaving maneuvers and the proper way of its conduction.</li></ol>

<b>b. Intellectual Skills:</b>	<ol style="list-style-type: none"> <li>1- Interpret the patient's symptoms and signs in terms of its diagnostic significance.</li> <li>2- Outline the plane of investigations needed for proper diagnosis of the patient.</li> <li>3- Formulate the plane of management after integration of clinical findings and investigations to achieve meticulous diagnosis.</li> <li>4- Detect complications of surgical procedures and determine when to refer or ask for consultations of other specialties.</li> </ol>
<b>c. Professional and Practical Skills:</b>	<ol style="list-style-type: none"> <li>1- Apply the art of surgical history taking from the patient.</li> <li>2- Perform general and local examination.</li> <li>3- Identify normal anatomical findings and landmarks.</li> <li>4- Predict surgical emergencies and life threatening situations.</li> <li>5- Perform simple bed side diagnostic tests as aspiration and trans-illumination.</li> <li>6- Interpret different radiological features of surgical diseases.</li> <li>7- Write a safe prescription for head and neck surgical disorders.</li> </ol>
<b>d. General and transferable skills</b>	<ol style="list-style-type: none"> <li>1- Conduct reliable and responsible behaviors.</li> <li>2- Respect the patient's well, privacy, and dignity.</li> <li>3- Evaluate professional mistakes in an honest way.</li> <li>4- Adopt the policy of continuous medical education.</li> </ol>

<b>4- Course Contents:</b>	<ol style="list-style-type: none"> <li>1- Neck swelling</li> <li>2- Wound healing</li> <li>3- Hemorrhage</li> <li>4- Hemostasis and bleeding disorders.</li> <li>5- Blood transfusion</li> <li>6- Cardiac Arrest</li> <li>7- Shock</li> <li>8- Wound infection.</li> <li>9- Antibiotics in surgery.</li> </ol>
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<b>5- Teaching and Learning Methods</b>	<ul style="list-style-type: none"> <li>❖ <b>Lectures;</b> for surgical knowledge and subject explanation and demonstration.</li> <li>❖ <b>Classes;</b> for case discussion, clinical participation of students, discussing case scenarios, and problem solving.</li> <li>❖ <b>Clinical data show slide</b> case demonstration and discussion.</li> <li>❖ <b>X-ray</b> sessions for different disease radiological demonstrations.</li> </ul>										
<b>6- Teaching and Learning Methods for special needs students</b>	Not Applicable										
<b>7- Student Assessment</b>											
<b>g) Assessment Methods</b>	<ol style="list-style-type: none"> <li>1) <b>Written exam;</b> to assess Knowledge and intellectual skills acquired.</li> <li>2) <b>Oral exam;</b> to assess knowledge and intellectual skills and practical abilities.</li> </ol>										
<b>h) Assessment Schedule</b>	<p><b>1<sup>st</sup> Midterm exam</b> by the end of the 1<sup>st</sup> month.</p> <p><b>2<sup>nd</sup> Midterm exam</b> by the end of the 2<sup>nd</sup> month.</p> <p><b>Final written exam</b> by the end of the semester</p> <p><b>Final Oral Exam</b> by the end of the semester</p>										
<b>i) Weighting of Assessment</b>	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">1<sup>st</sup> Midterm exam</td> <td style="width: 50%;">15 marks</td> </tr> <tr> <td>2<sup>nd</sup> Midterm exam</td> <td>15 marks</td> </tr> <tr> <td>Final written exam</td> <td>30 marks</td> </tr> <tr> <td>Final Oral exam</td> <td>40 marks</td> </tr> <tr> <td><b>Total</b></td> <td><b>100 marks</b></td> </tr> </table>	1 <sup>st</sup> Midterm exam	15 marks	2 <sup>nd</sup> Midterm exam	15 marks	Final written exam	30 marks	Final Oral exam	40 marks	<b>Total</b>	<b>100 marks</b>
1 <sup>st</sup> Midterm exam	15 marks										
2 <sup>nd</sup> Midterm exam	15 marks										
Final written exam	30 marks										
Final Oral exam	40 marks										
<b>Total</b>	<b>100 marks</b>										

<b>8- List of References</b>	
<b>a) Course Notes</b>	<ul style="list-style-type: none"> <li>▪ The department notes and printed lectures.</li> <li>▪ The PowerPoint lectures and case discussions.</li> </ul>
<b>b) Essential Books (Text Books)</b>	<ul style="list-style-type: none"> <li>➤ Kasr El-Aini introduction to surgery (2016).</li> <li>➤ Bailey and Love's short practice of surgery.</li> </ul>
<b>c) Recommended Books</b>	<ul style="list-style-type: none"> <li>• Current Surgical diagnosis and treatment (2017)</li> <li>• Sabiston Textbook of surgery 20<sup>th</sup> Edition.</li> <li>• Oxford Handbook of clinical surgery (2013)</li> </ul>
<b>d) Scientific periodicals, bulletins, etc.....</b>	<ul style="list-style-type: none"> <li>❖ Surgical clinics of North America.</li> <li>❖ Recent advances in surgery.</li> <li>❖ Overview – General surgery – Mayo clinic</li> </ul>

**Course Coordinator:** Prof. Usama Saeed Imam Abdulaal

**Head of Department:** Prof. Nagwa Roshdy

**Date:** / 3 /2016



**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** Oral Medicine, Periodontology , Diagnosis and radiology

### Course Specification

1- Basic Information		
<b>Course Title:</b> علم المناعة-1 Immunology-1	<b>Course Code:</b> 631 IMM631	<b>Level:</b> ماجستير (جزء اول- فصل دراسي اول)
<b>Master degree in: Oral and Maxillofacial Surgery</b>	Credit Hours: 1 Theoretical: 1	

<b>2- Aim of the course:</b>	<ol style="list-style-type: none"><li>To foster knowledge that governs the principles of immunology.</li><li>To provide opportunities to review the fundamental characteristics of both innate and adaptive immune systems and begin to understand how they must work in concert to protect the host from infectious diseases.</li></ol>
<b>3- Intended Learning Outcomes of Course (ILO) :</b> By the end of the course, post graduate student should be able to:	
<b>a. Knowledge and understanding :</b>	<ol style="list-style-type: none"><li>Identify the cardinal characteristics of the innate immune response.</li><li>Describe the characteristics of B cells and T cells and their role in the adaptive immune response.</li></ol>
<b>b. Intellectual Skills:</b>	<ol style="list-style-type: none"><li>Analyze how the immune system responds to survival threats.</li><li>Discover the relationship between the innate and the adaptive immune systems.</li><li>Predict the underlying mechanisms of the different oro-dental diseases.</li></ol>
<b>c. Professional and Practical Skills:</b>	<ol style="list-style-type: none"><li>Relate signs and symptoms of different oro-dental diseases to their pathogenesis.</li><li>Execute professional reports related to different applications of immunology in a reasonable, safe and ethical manner.</li><li>Recommend the need of initial medical emergencies management as basic life support.</li></ol>

<b>d. General and transferable skills</b>	<ul style="list-style-type: none"> <li>1- Select relevant literature and review information.</li> <li>2- Work effectively in groups and exercise leadership when appropriate.</li> <li>3- Act responsibly in personal and professional relationships.</li> <li>4- Take responsibility for own learning and continuing personal and professional development.</li> <li>5- Act ethically and consistently with high moral standards in personal and public terms.</li> </ul>						
<b>4- Course Contents:</b>	Immunological disease (part-1)- <ul style="list-style-type: none"> <li>1- Innate immunity</li> <li>2- T-cells and B-cells.</li> </ul>						
<b>5- Teaching and Learning Methods</b>	<ul style="list-style-type: none"> <li>1. Lectures with discussions.</li> <li>2. Small group sessions.</li> <li>3. Tutorial classes :-               <ul style="list-style-type: none"> <li>a. Small group teaching.</li> <li>b. Computer projection.</li> </ul> </li> </ul>						
<b>6- Teaching and Learning Methods for special needs students</b>	---						
<b>7- Student Assessment</b>							
<b>a) Assessment Methods</b>	<ul style="list-style-type: none"> <li>1. Written exam to assess knowledge and understanding &amp; general intellectual skills. M.C.Q to assess knowledge &amp; understanding &amp; general intellectual skills.</li> <li>2. Oral examination to assess knowledge and understanding &amp; professional skills &amp; general intellectual skills.</li> </ul>						
<b>b) Assessment Schedule</b>	Assessment 1: midterm (written) Assessment 2: end of term (oral) Assessment 3: final (written)						
<b>c) Weighting of Assessment</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Written Examination</td> <td style="text-align: right;">30 %</td> </tr> <tr> <td>Oral Examination</td> <td style="text-align: right;">20 %</td> </tr> <tr> <td>Total</td> <td style="text-align: right;">50%</td> </tr> </table>	Written Examination	30 %	Oral Examination	20 %	Total	50%
Written Examination	30 %						
Oral Examination	20 %						
Total	50%						

<b>8- List of References</b>	
<b>e) Course Notes</b>	- Immunology notes (Oral Medicine department).
<b>f) Essential Books (Text Books)</b>	- Daniel P. Stites, Basic and Clinical Immunology. McGraw-Hill Education, 1994.
<b>g) Recommended Books</b>	- Medical immunology, Tristram G. Parslaw, Daniel P. Stites, Abba I. Terr and John B. Imboden, McGraw Hill Professional, Mar 23, 2001. - Primer to the immune response by Tak Mak, Mary Saunders and Bradley Jett, 2014.
<b>h) Scientific periodicals, bulletins, etc.....</b>	<ul style="list-style-type: none"> <li>• Periodicals, Web sites, ... etc</li> <li>• Journal of Immunology Research</li> <li>• World Journal of Immunology</li> </ul>

*Course Coordinator: Shahira Gamal El Din El Ashiry*

*Head of Department: Shahira Gamal El Din El Ashiry*

*Date: /3/2016*

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** Oral Medicine, Periodontology ,Diagnosis, and radiology

### Course Specification

1- Basic Information		
Course Title: تشخيص اكلينيكي-1 Oral diagnosis-1	Course Code: 635 DIAG635	Level: ماجستير (جزء اول- فصل دراسي اول)
Master degree in: Oral and Maxillofacial Surgery	Credit Hours: 2 Theoretical: 1 Practical: 2	
2- Aim of the course:	a) To foster knowledge that governs the principles of oral diagnosis. b) To provide opportunities for review and analysis of a wide range of patients chief complaints. c) To record and memorize important patient`s information and relate it to his /her chief complaint. d) To choose the appropriate diagnostic method to discover the patient`s complaint.	
3- Intended Learning Outcomes of Course (ILO) :		
By the end of the course, post graduate student should be able to:		
a. Knowledge and understanding :	1- Define different types of oral diagnosis. 2- State scientific rules for obtaining patient history. 3- Identify different methods for history taking. 4- Review different types of chief complaints. 5- Identify important patient`s information as regards his/her social, dental and past/present medical condition. 6- Explain different techniques of oral examination. 7- Identify the different instruments, devices and methods used in the field of oral diagnosis.	

<b>b. Intellectual Skills:</b>	1- Point out different treatment options and possible complications. 1- Differentiate between different types of chief complaints. 2- Select suitable methods of intraoral and extraoral examinations for the case in hand 3- Propose an individualized treatment plan for different chief complaint/s. 4- Assess treatment options to be done by the general dentist and those that need referral and consultation.
<b>c. Professional and Practical Skills:</b>	5- Apply the brief concise case history in an informed consent. 6- Analyze answers to the different types of questions asked to the patient. 7- Relate information obtained from the patient history to his/her chief complaint. 8- Select the medical and dental history items relevant to the chief complaint/s reported by the patient. 9- Use different instruments and techniques of clinical examination and understand their limitations and hazards.
<b>d. General and transferable skills</b>	1- Demonstrate respect to all patients irrespective of their socioeconomic level and cultural beliefs. 2- Appraise his/her duty to manage oral health of the patient with special needs. 3- Apply the health and safety regulations as they affect dental practice and environment.
<b>4- Course Contents:</b>	1- Introduction and scope of oral diagnosis. 2- Patient history. 3- Methods of clinical examination.
<b>5- Teaching and Learning Methods</b>	a. Lectures with discussions. b. Tutorial classes: - Small group teaching, Computer projection, Role playing. c. Case Study:- Demonstration using computer projection, Demonstrate with a patient, Discussion and practice of the diagnostic skills.
<b>6- Teaching and Learning Methods for special needs students</b>	---

<b>7- Student Assessment</b>									
<b>a) Assessment Methods</b>	<ol style="list-style-type: none"> <li>1. Written exam to assess knowledge and understanding &amp; general intellectual skills.</li> <li>2. M.C.Q to assess knowledge &amp; understanding &amp; .... Professional skills &amp; general intellectual skills.</li> <li>3. Practice exam to assess knowledge and understanding &amp; professional skills &amp; general intellectual skills.</li> <li>4. Oral examination to assess knowledge and understanding &amp; professional skills &amp; general intellectual skills.</li> </ol>								
<b>b) Assessment Schedule</b>	<p>Assessment 1: midterm (written)  Assessment 2: end of term (practical)  Assessment 3: end of term (oral)  Assessment 4: final (written)</p>								
<b>c) Weighting of Assessment</b>	<table> <tr> <td>Written Examination</td> <td>60 %</td> </tr> <tr> <td>Oral Examination</td> <td>20 %</td> </tr> <tr> <td>Practical Examination</td> <td>20 %</td> </tr> <tr> <td>Total</td> <td>100%</td> </tr> </table>	Written Examination	60 %	Oral Examination	20 %	Practical Examination	20 %	Total	100%
Written Examination	60 %								
Oral Examination	20 %								
Practical Examination	20 %								
Total	100%								
<b>8- List of References</b>									
<b>i) Course Notes</b>	- Oral diagnosis notes (Oral Medicine department).								
<b>a) Essential Books (Text Books)</b>	<ul style="list-style-type: none"> <li>- Principles of Oral Diagnosis; Gary C Coleman; John F Nelson, Illustrated Edition, 1993.</li> <li>- Textbook of oral diagnosis, Prabhu SR, oxford university Press, 2007.</li> </ul>								
<b>b) Recommended Books</b>	- Text book of Oral Medicine, Oral Diagnosis and Oral Radiology Ravikiran Ongole, Elsevier (A Division of Reed Elsevier India Pvt. Limited), 2009.								
<b>c) Scientific periodicals, bulletins, etc.....</b>	<ul style="list-style-type: none"> <li>• Periodicals, Web sites,</li> <li>• Journal of Oral surgery, Oral Medicine, Oral pathology, Oral Radiology.</li> </ul>								

*Course Coordinator: Shahira Gamal El Din El Ashiry*

*Head of Department: Shahira Gamal El Din El Ashiry*

*Date: /3/2016*

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** oral biology and oral pathology

**Course Specification**

1- Basic Information		
Course Title: oral pathology	Course Code:602	Level: 1 <sup>st</sup> part master`s degree
Master degree in: All specialties	Credit Hours: 3 Theoretical:2Practical:2	

2- Aim of the course:	<ol style="list-style-type: none"><li>1. To demonstrate common pathological diseases affecting the periapical area.</li><li>2. To highlight the differences between different types of cysts of oral and paraoral region.</li><li>3. To underline different types of odontogenic tumors.</li></ol>
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**3- Intended Learning Outcomes of Course (ILO):**  
**By the end of the course, post graduate student should be able to:**

a) Knowledge and understanding :	<ol style="list-style-type: none"><li>a1- Describe the process of pulp necrosis and calcification</li><li>a2-. Discuss different diseases affecting the periapical area</li><li>a3- describe dental granuloma, dental abscess and alveolar osteitis</li><li>a4- Identify the clinical signs &amp; symptoms of acute and chronic osteomyelitis</li><li>a5- Categorize odontogenic cysts</li><li>a6- Summarize soft tissue cysts</li><li>a7- Classify odontogenic tumors into epithelial, mesenchymal and mixed.</li></ol>
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<b>b) Intellectual Skills:</b>	b1- Differentiate between pulp necrosis and calcifications. b2- Evaluate diseases of the periapical areas. b3- Distinguish between periapical granuloma, cyst and alveolar osteitis b4- Analyze types of osteomyelitis b5- Differentiate between different types of odontogenic cysts according to clinical, histological and radiographic pictures and compare them with soft tissue cysts. b6-Subdivide epithelial, mesenchymal and mixed odontogenic tumors according to their clinical behavior, histological and radiographic pictures.
<b>c) Professional and Practical Skills:</b>	c1- Hypothesize treatment plan to different diseases affecting periapical area (dental granuloma, abscess and alveolar osteitis) c2-Estimate the clinical signs and symptoms of acute and chronic osteomyelitis . c3- Predict the recurrence rate of odontogenic cysts and tumors based on their clinical behavior and histological pictures.
<b>d) General and transferable skills</b>	d1- Demonstrate appropriate professional attitudes and behavior in dealing with staff members & helping personnel . d2- Communicate effectively both verbally and in writing with other health care professionals to maximize patient benefits and minimize the risk of errors and to teach surgeons to convey the disease grade according to the commonly used grading systems worldwide. d3- Apply the information technology as a means of communication for data collection and analysis and for life – long learning . d4- Identify the socioeconormic , cultural , geographical & occupational factors that may influence etiology of oral pathological conditions and the impact of disease on the community



<b>4- Course Contents:</b>	<ul style="list-style-type: none"> <li>• Pulp necrosis and calcification</li> <li>• Diseases of periapical area</li> <li>• Dental granuloma, abscess and alveolar osteitis</li> <li>• Osteomyelitis (acute and chronic)</li> <li>• Odontogenic cysts</li> <li>• Classification of inflammatory odontogenic cysts</li> <li>• Soft tissue cysts</li> <li>• Odontogenic tumors</li> <li>• Classification of epithelial odontogenic tumors</li> <li>• Mesenchymal and mixed odontogenic tumors</li> </ul>
<b>5- Teaching and Learning Methods</b>	<ul style="list-style-type: none"> <li>• Lectures with discussions (interactive lectures), Data show presentation, brain storming, and case study.</li> <li>• Practical sessions.</li> <li>• Microscopic slides: Demonstration of slides using computer projection, Discussion and practice of the skill of identification of microscopic slides.</li> </ul>
<b>6- Teaching and Learning Methods for special needs students</b>	<p style="text-align: center;">Individual (one on one classes with one of the TA`s or lecturers during hours agreed upon by the student and the staff members)</p>
<b>7- Student Assessment</b>	
<b>a) Assessment Methods</b>	<ul style="list-style-type: none"> <li>• written examination to assess knowledge and understanding and assessment of general intellectual skills</li> <li>• Multiple choice questions to assess knowledge and understanding and assessment of general intellectual skills</li> <li>• Oral examination to assess knowledge and understanding (and assessment of practical skills &amp; assessment of general intellectual skills )</li> <li>• Practical examination to assess knowledge and understanding and assessment of practical skills and assessment of general intellectual skills</li> </ul>
<b>b) Assessment Schedule</b>	<p>Final written exam ( at the end of the semester) Final practical exam (at the end of the semester) Final oral exam( at the end of the semester)</p>

<b>c) Weighting of Assessment</b>	Final written exam (90 marks of 150) Final practical exam (30 marks of 150) Final oral exam (30 marks of 150)
<b>8- List of References</b>	
<b>a) Course Notes</b>	The lecture notes are available (based on the latest edition of `oral and maxillofacial pathology / Neville)
<b>b) Essential Books (Text Books)</b>	Brad Neville, Douglas d. dam, Carl allen, et al 2015, Oral and Maxillofacial pathology 4 <sup>th</sup> ed., Sanders.
<b>c) Recommended Books</b>	Colored Atlas of oral pathology
<b>d) Scientific periodicals, bulletins, etc.....</b>	

*Course Coordinator: Dr. Adham Hussein Fahmy*

*Head of Department: prof. Rehab Abdulmoneim*

*Date: / 3 /2016*

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** oral biology and oral pathology department

### Course Specification

1- Basic Information		
<b>Course Title:</b> Oral histology 2	<b>Course Code:</b> 604	<b>Level:</b> 1 <sup>st</sup> part – 2 <sup>nd</sup> semester
<b>Master degree in:</b> Orthodontics Fixed prosthetic dentistry Operative dentistry Prosthetic dentistry Oral and maxillofacial surgery	<p><i>Credit Hours: 3</i> <i>Theoretical:2</i> <i>Practical:2</i></p>	
<b>2- Aim of the course:</b>	<ul style="list-style-type: none"> <li>To keep pace with recent advances and to provide an expanded knowledge about histology, embryology and physiology of cementum, pulp and shedding and eruption.</li> <li>To serve as a basis for understanding the clinical courses such as oral pathology, oral surgery and oral medicine</li> </ul>	
3- Intended Learning Outcomes of Course (ILO) :		
By the end of the course, post graduate student should be able to:		
<b>a) Knowledge and understanding:</b>	<ol style="list-style-type: none"> <li>Identify cementum &amp; pulpal dental tissues.</li> <li>Describe the structure and function of cementum &amp; pulp.</li> <li>Discuss important para-oral structures closely related to the oral cavity.</li> <li>Explain the clinical significance associated with these para-oral structures.</li> <li>Describe the histological age changes of cementum, pulp &amp; some para-oral structures.</li> <li>Describe histology &amp; physiology of teeth eruption &amp; shedding.</li> </ol>	

<b>b) Intellectual Skills:</b>	<ol style="list-style-type: none"> <li>1- Differentiate between the different oral and para-oral tissues.</li> <li>2- Illustrate the importance of the para-oral tissues and their clinical implications on the dental &amp; other oral tissues.</li> <li>3- Distinguish any age changes or abnormalities that might affect some dental cementum, pulp &amp; some para-oral tissues.</li> </ol>
<b>c) Professional and Practical Skills:</b>	<ol style="list-style-type: none"> <li>1. Interpret the normal histology of dental cementum &amp; pulp &amp; para-oral tissues through power point data show.</li> <li>2. Draw the histological structure of dental cementum, pulp &amp; para-oral tissues.</li> </ol>
<b>d) General and transferable skills</b>	<ol style="list-style-type: none"> <li>1. Communicate effectively with colleagues and interact in a team work.</li> <li>2. Demonstrate appropriate professional attitude and behavior in different situations.</li> <li>3. Manage time effectively.</li> </ol>
<b>4- Course Contents:</b>	<ul style="list-style-type: none"> <li>• Cementum</li> <li>• Pulp</li> <li>• Shedding</li> <li>• Eruption</li> <li>• Embryology (Cranio- facial embryology)</li> <li>• Maxillary Sinus</li> <li>• Tempro-mandibular joint</li> </ul>
<b>5- Teaching and Learning Methods</b>	<ol style="list-style-type: none"> <li>a) Interactive lectures: including power point data show, videos and brain storming.</li> <li>b) Practical and small group sessions: Each practical session is preceded by slide demonstration, description and drawing of oral tissues.</li> <li>c) Class discussions.</li> <li>d) Drawing in the practical books under supervision of the responsible staff members.</li> </ol>
<b>6- Teaching and Learning Methods for special needs students</b>	<p>Direct observation Individual teaching</p>

7- Student Assessment											
<b>a) Assessment Methods</b>	a) Written examination to assess knowledge and understanding and intellectual skills. b) Oral examination to assess knowledge and understanding and intellectual skills and attitude. c) Practical examination to assess practical skills & intellectual skills & general skills. d) Practical book to assess practical skills. e) Research assignments. f) Presentations and seminars.										
<b>b) Assessment Schedule</b>	Final term										
<b>c) Weighting of Assessment</b>	<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Final term Examination</td> <td style="text-align: right;">90</td> </tr> <tr> <td>Oral Examination</td> <td style="text-align: right;">30</td> </tr> <tr> <td>Practical Examination</td> <td style="text-align: right;">30</td> </tr> <tr> <td colspan="2" style="border-top: 1px solid black;"></td> </tr> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">150</td> </tr> </table>	Final term Examination	90	Oral Examination	30	Practical Examination	30			Total	150
Final term Examination	90										
Oral Examination	30										
Practical Examination	30										
Total	150										

8- List of References	
<b>a) Course Notes</b>	*Department handouts
<b>b) Essential Books (Text Books)</b>	<ul style="list-style-type: none"> <li>• Mary Bath-Balogh, Margaret J. Fehrenbach, Dental Embryology Histology and anatomy.</li> <li>• TenCate's Oral Histology Development, Structure and Function.</li> </ul>
<b>c) Recommended Books</b>	----
<b>d) Scientific periodicals, bulletins, etc.....</b>	Websites related to the study subject: Science direct- Pub Med

**Course Coordinator: Rehab Abdul Moneim**  
**Head of Department: Rehab Abdul Moneim**  
**Date: / 3 /2016**

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** general supplementary sciences

**Course Specification**

1- Basic Information		
<b>Course Title: Anatomy (of Neck)</b>	<b>Course Code: 606</b>	<b>Level: Part I, second semester</b>
<b>Master degree in:</b> -Orthodontics. -Removable Prosthodontics. -Oral and maxillofacial Surgery. -Conservative Dentistry.	Credit Hours: Theoretical: 2 - Practical: 1	
<b>2- Aim of the course:</b>	<ul style="list-style-type: none"> <li>• To apply anatomical facts while examining the living subject to reach the proper diagnosis.</li> <li>• To identify the different surface markings of neck with determining the position of muscles and their actions and the course of nerves and vessels.</li> <li>• To interpret the normal anatomical structures of neck on radiographs of different regions of neck.</li> <li>• To provide appropriate ethical and professional education necessary for dealing with cadavers.</li> <li>• To correlate anatomical facts with its clinical application.</li> </ul>	
3- Intended Learning Outcomes of Course (ILO) :		
By the end of the course, post graduate student should be able to:		
<b>a. Knowledge and understanding :</b>	<ol style="list-style-type: none"> <li>1- Discuss the basic principles of the structure of different muscles, nerves, vessels, and glands of neck.</li> <li>2. Describe the basic features of muscles, nerves, vessels and glands of the neck.</li> <li>3- Outline major clinical applications in the core syllabus of anatomical facts.</li> </ol>	

<p><b>b. Intellectual Skills:</b></p>	<p>1- Correlate anatomy of different surface markings in determining the position or course of internal structure of the neck. 2- Explain the clinical significance of muscle actions.</p>
<p><b>c. Professional and Practical Skills:</b></p>	<p>1- Apply the learned anatomical facts while examining living subject to reach the proper diagnosis. 2- Identify the different muscles, glands, major vessels and nerves in human cadavers. 3- Interpret radiograph, C.T, and magnetic resonance images.</p>
<p><b>d. General and transferable skills</b></p>	<p>1- Maintain honesty and integrity in all interactions with teachers, colleagues, patients and others with whom dentists/oral surgeons must interact with in their professional lives. 2- Appreciate their role as well as the necessity of seeking the collaboration of other workers on as needed basis. 3- Take responsibility towards all work rules and regulations. 4- Motional stability in all unusual stressful situations.</p>

#### 4- Course Contents:

- **Skull:** General and particular features: - Bones forming the skull ( name, position and parts of each)- Major foramina and fissures with structures passing, clinical points as commonly fractured areas: (1 hour)
- **Mandible:** Parts, features, muscles and ligaments attached to it, nerves, vessels and glands related. Foramina in the mandible with passing structures. Common sites of fracture. (1 hour).
- **Skin, fascia of the neck:** superficial fascia with structures embedded inside, parts of deep fascia (site and extension of each part). (1 hour)
- **Deep fascia:** parts, site, extensions and related tissue spaces. Spread of neck infection from abscess around roots of teeth of lower jaw. (1 hour)
- **Sternomastoid muscle:** Site, attachments, nerve supply, relations and results of spasmodic contraction. (1 hour)
- **Posterior triangle of the neck:** Boundaries, site, parts, contents and Submandibular region: results of injury at its roof. (1 hour).
- **Anterior triangle of the neck:** Site, boundaries and divisions. (1 hour)
- **Carotid triangle:** Site, boundaries, contents and significance of carotid body and sinus.
- **Submandibular region:** (5 hours)
  - Submandibular muscles.
  - Submandibular and sublingual salivary glands.
  - Lingual nerve and submandibular ganglion.
  - Digastric triangle (boundaries and contents).
  - Submental triangle (boundaries and contents).
- **Infrahyoid muscles:** Site, attachments, nerve supply and action. Muscular triangle (Site, boundaries and contents). (1 hour)
- **Thyroid gland:** Site, parts, relations, blood supply and nerves related to the main arteries. Parathyroid glands (number and site). Clinical points related to enlargement of the gland and thyroidectomy. (1 hour)
- **Trachea & esophagus:** Site, extensions, relations, blood supply and nerve supply. (1 hour)
- **Carotid arteries (common, external & internal):** Course and branches. Carotid body and sinus (site, function and nerve supply). (1 hour)
- **Jugular veins (anterior, external and internal):** Site, course and tributaries. Effects of cut injury of external jugular vein at the roof of posterior triangle. (1 hour)



<p><b>5- Teaching and Learning Methods</b></p>	<p><b>1. Didactic Lectures:</b> for acquisition of course knowledge, one two-hour lecture per week.</p> <p><b>2. Practical classes:</b> including practical demonstration on dissected specimen and radiological films in the dissecting room, one two-hour session per week.</p> <p><b>3. Tutorial classes:</b> 2 hours weekly before dissecting a major region and a brief discussion by the end of each practical lesson.</p> <p><b>4. Self-Assessment:</b> As appropriate, self-assessment questions in the form of short essay and/or MCQs.</p>
<p><b>6- Teaching and Learning Methods for special needs students</b></p>	<p>-----</p>
<p><b>7- Student Assessment</b></p>	
<p><b>a) Assessment Methods</b></p>	<p><b>1. Written examination:</b> (2) hours Assessment of Knowledge and understanding in the form of essay, MCQ and fill in the blanks questions.</p> <p><b>2. Oral examination:</b> (10-15) minutes Assessment of understanding of pre-identified knowledge.</p> <p><b>3. Practical examinations:</b> Three minutes per station for a total of 10 stations, testing Identification Knowledge of different anatomical structures on bones and human cadaver.</p> <p><b>4. Logbook Assessment</b> of practical activities.</p>
<p><b>b) Assessment Schedule</b></p>	<p><b>Assessment 1:</b> MCQ Quiz exam</p> <p><b>Assessment 2:</b> Mid Term Exam (Essay, fill in the blanks, and MCQ)</p> <p><b>Assessment 3:</b> MCQ Quiz exam</p> <p><b>Assessment 4:</b> Practical exam</p> <p><b>Assessment 5:</b> Oral exam</p> <p><b>Assessment 6:</b> Final written exam</p>
<p><b>c) Weighting of Assessment</b></p>	<p><b>Assessment 1:</b> 2.0 %</p> <p><b>Assessment 2:</b> 6.0 %</p> <p><b>Assessment 3:</b> 2.0 %</p> <p><b>Assessment 4:</b> 10.0 %</p> <p><b>Assessment 5:</b> 20.0 %</p> <p><b>Assessment 6:</b> 60.0 %</p>

<b>8- List of References</b>	
<b>d) Course Notes</b>	Available in hard copy
<b>e) Essential Books (Text Books)</b>	Netter's Head and Neck Anatomy for Dentistry.
<b>f) Recommended Books</b>	1-Gray's Anatomy for student 2-Cunningham's Text Book of Anatomy
<b>g) Scientific periodicals, bulletins, etc.....</b>	

*Course Coordinator: Dr. Sherif Fahmy Arsanyos*

*Head of Department: Dr. Nagwa Roshdy*

*Date: 3/3 /2016*

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** Oral medicine periodontology diagnosis and radiology

### *Course Specification*

1- Basic Information		
<b>Course Title: oral radiology</b>	<b>Course Code: 612</b>	<b>Level: 1<sup>st</sup> year master degree</b>
<b>Master degree in:</b>	Credit Hours: 3/ Theoretical: 2/Practical: 2	
<b>2- Aim of the course:</b>	<ol style="list-style-type: none"> <li>1. To train students to clinical imaging sciences including CT, CBCT, MRI, US, contrast and enhanced imaging</li> <li>2. To enable the students to interpret normal radiographic anatomy in intra oral and extra oral radiographs, CT and CBCT</li> <li>3. To identify radiographic manifestation of local and systemic diseases in head and neck region.</li> </ol>	
3- Intended Learning Outcomes of Course (ILO) :		
By the end of the course, post graduate student should be able to:		
<b>a.Knowledge and understanding :</b>	<ol style="list-style-type: none"> <li>1. Identify and list anatomical landmarks related to various intra-oral and extra-oral radiographs.</li> <li>2. Explain the principles of extra-oral radiographic techniques and understand their indications</li> <li>3. Discuss the methodological approach and principles of radiographic interpretation and description of lesions.</li> <li>4. Describe different carious lesions and radiographic methods of their evaluation.</li> <li>5. describe different periodontal lesions and radiographic methods of their evaluation</li> </ol>	

<p><b>b. Intellectual Skills:</b></p>	<ol style="list-style-type: none"> <li>1. Discuss principles of radiation biology, doses, and methods of protection with special emphasis on the ALARA concept</li> <li>2. Formulate complete radiographic report for intraoral CMS, panoramic and extra oral radiographs.</li> <li>3. Formulate a differential diagnosis list of a lesion</li> </ol>
<p><b>c. Professional and Practical Skills:</b></p>	<ol style="list-style-type: none"> <li>1- Appreciate normal radiographic anatomy and variations as well as common dental pathology seen on intraoral radiographs.</li> <li>2- Learn the radiographic interpretation basics to enhance diagnostic skills and also on extra-oral radiography, panoramic radiography and digital radiography.</li> <li>3- Identify different radiographic carious lesions.</li> <li>4- Perform radiographic assessment means of different periodontal lesions.</li> <li>5- Interpret radiographs of some teeth-related syndromes, as well as traumatic injuries of teeth and jaws.</li> </ol>
<p><b>d. General and transferable skills</b></p>	<ol style="list-style-type: none"> <li>1- Demonstrate appropriate professional attitudes and behavior in different situations toward patients, colleagues and supervisors.</li> <li>2- Provide empathic care for all patients without discrimination.</li> <li>3- Regularly assess one's knowledge and skills, and seek additional information to correct deficiencies and enhance performance.</li> <li>4- Implement and monitor infection control and environmental safety programs according to current standard</li> </ol>

<p><b>4- Course Contents:</b></p>	<ul style="list-style-type: none"> <li>• radiation protection of the patient, operator, personal, and environment</li> <li>• Introduction to DD and description of the lesion             <ul style="list-style-type: none"> <li>• Periapical RL</li> <li>• Pericoronal RL</li> <li>• Solitary well defined RL</li> <li>• Solitary ill-defined RL</li> <li>• Interradicular RL</li> <li>• Multilocular RL</li> <li>• Multi-focal RL</li> <li>• Generalized RL</li> <li>• Mixed RL-RO (contacting teeth)</li> <li>• Mixed RL-RO( not contacting teeth)</li> <li>• RO lesions</li> </ul> </li> <li>• Interpretation and misinterpretation of carious lesions</li> <li>• Interpretation of periodontal diseases</li> <li>• Alternative and specialized imaging modalities (CT, CBCT, MRI and US, scintigraphy and sialography)</li> </ul>
<p><b>5- Teaching and Learning Methods</b></p>	<ul style="list-style-type: none"> <li>• Lectures by PPS presentations</li> <li>• Clinical training:             <ul style="list-style-type: none"> <li>• Demonstrations and videos</li> <li>• Work sheets and surveys</li> <li>• Report back sessions</li> <li>• rotations in radiology department</li> <li>• literature review seminars</li> <li>• Group work, team work, and self-presentation</li> </ul> </li> </ul>
<p><b>6- Teaching and Learning Methods for special needs students</b></p>	<p>-----</p>
<p><b>7- Student Assessment</b></p>	
<p><b>d) Assessment Methods</b></p>	<ul style="list-style-type: none"> <li>• formative quizzes</li> <li>• clinical requirements, and reports</li> <li>• Final Written exam</li> <li>• Final Oral exam</li> <li>• Final clinical exam</li> </ul>

<b>e) Assessment Schedule</b>	<ul style="list-style-type: none"><li>• First midterm exam(week5)</li><li>• Second midterm exam(week10)</li><li>• Practical exam( week 12)</li><li>• Oral exam ( end of semester)</li><li>• Final written exam( end of semester)</li></ul>
<b>f) Weighting of Assessment</b>	<ul style="list-style-type: none"><li>• Midterm written exam (20%)</li><li>• Practical exam (20%)</li><li>• Oral exam (20%)</li><li>• Final written exam (40%)</li></ul>

<b>8- List of References</b>	
<b>h) Course Notes</b>	Course notes available PPS available for the students from the department
<b>i) Essential Books (Text Books)</b>	Oral Radiology, 7th Edition 2014 , Principles and Interpretation By Stuart C. White, DDS, PhD and Michael J. Pharoah, DDS
<b>j) Recommended Books</b>	Essentials of dental radiography and radiology, Eric Waites, 5 <sup>th</sup> ed 2013
<b>k) Scientific periodicals, bulletins, etc.....</b>	Journal of maxillofacial radiology <a href="http://www.joomr.org/">http://www.joomr.org/</a>

**Course Coordinator: prof. Gihan Omar**

**Head of Department: prof. Shahira Elasheiry**

**3/2016**

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** General supplementary sciences

### *Course Specification*

1- Basic Information		
<b>Course Name: General Surgery and ENT</b>	<b>Course Code:628</b>	<b>Level: Second semester, first part</b>
<b>Master degree in: Oral Surgery</b>	Credit Hours: Theoretical:2 Practical:.....	
<b>2- Aim of the course:</b>	<ul style="list-style-type: none"> <li>• To provide the student with the basic surgical knowledge of head, neck, and facio-maxillary infections and surgery.</li> <li>• To enable the student to detect malignant disorders at an early stage.</li> <li>• To provide the student with the appropriate surgical principles, professional surgical attitude, and proper application of diagnostic and therapeutic surgical rules in maxillofacial emergencies.</li> </ul>	



**3- Intended Learning Outcomes of Course (ILO):**  
**By the end of the course, post graduate student should be able to:**

<p><b>a. Knowledge and understanding:</b></p>	<ol style="list-style-type: none"> <li>1) Describe the surgical anatomy and physiology of head and neck regions.</li> <li>2) Identify the common surgical head and neck diseases and its etiology, pathology, clinical features, and complications.</li> <li>3) Describe the management rules of congenital anomalies (e.g cleft palat and hare lip) .</li> <li>4) Discuss the preventive and management protocols for gas gangrene.</li> <li>5) Identify basic principles of simple surgical operations and its postoperative management. Discuss management of maxillofacial emergency</li> </ol>
<p><b>b. Intellectual Skills:</b></p>	<ol style="list-style-type: none"> <li>1. Interpret the patient’s symptoms and signs in terms of its diagnostic significance.</li> <li>2. Outline the plan of investigations need for proper diagnosis of the patient with gas gangrene.</li> <li>3. Formulate the plane of management after integration of clinical findings and investigations to achieve meticulous diagnosis of maxillofacial emergency.</li> <li>4. Detect complications of surgical procedures and determine when to refer or ask for consultations of other specialties.</li> </ol>

<p><b>c. Professional and Practical Skills:</b></p>	<ol style="list-style-type: none"> <li>1. Apply the art of surgical history taking from the patient in different infections.</li> <li>2. Perform general and local examination of head and neck regions.</li> <li>3. Identify signs of gas gangrene.</li> <li>4. Identify surgical emergencies and life threatening situations.</li> <li>5. Perform simple bed side diagnostic tests as aspiration and trans-illumination.</li> <li>6. Identify different radiological features of maxillofacial emergencies.</li> <li>7. Write a safe prescription for head and neck surgical disorders.</li> <li>8. Diagnose congenital anomalies of head and neck</li> </ol>
<p><b>d. General and transferable skills</b></p>	<ol style="list-style-type: none"> <li>1- Conduct reliable and responsible behaviors.</li> <li>2- Respect the patient's well, privacy, and dignity.</li> <li>3- Self-evaluation and discussion of professional mistakes in an honest way.</li> <li>4- Adopt the policy of continuous medical education.</li> </ol>
<p><b>4- Course Contents:</b></p>	<ol style="list-style-type: none"> <li>1. Face, lips, and palate infection and surgery.</li> <li>2. Tongue infections and surgery.</li> <li>3. Salivary glands infections and surgery.</li> <li>4. Gum and floor of mouth surgery.</li> <li>5. Swellings and tumors of the Jaws.</li> <li>6. Epulides and Odontomes surgery.</li> <li>7. Ear, Nose and Maxillary diseases and surgery</li> <li>8. Congenital anomalies of face and ears.</li> <li>9. Cervical lymph nodes, lymphadenopathy and surgery.</li> <li>10. Gas gangrene</li> <li>11. Maxillofacial emergency</li> </ol>

<b>5- Teaching and Learning Methods</b>	<ul style="list-style-type: none"> <li>❖ <b>Lectures;</b>for surgical knowledge and subject explanation and demonstration.</li> <li>❖ <b>Classes;</b> for case discussion, clinical participation of students, discussing case scenarios, and problem solving.</li> <li>❖ <b>Clinical data show slide</b> case demonstration and discussion.</li> <li>❖ <b>X-ray</b> sessions for different disease radiological demonstrations.</li> </ul>										
<b>6- Teaching and Learning Methods for special needs students</b>	Not Applicable										
<b>7- Student Assessment</b>											
<b>g) Assessment Methods</b>	<ol style="list-style-type: none"> <li>1) <b><u>1-Written exam;</u></b> to assess Knowledge and intellectual skills acquired.</li> <li>2) <b><u>Oral exam;</u></b> to assess knowledge and practical abilities.</li> </ol>										
<b>h) Assessment Schedule</b>	<ul style="list-style-type: none"> <li>• <b>1<sup>st</sup> Midterm exam</b> by the end of the 1<sup>st</sup> month.</li> <li>• <b>2<sup>nd</sup> Midterm exam</b> by the end of the 2<sup>nd</sup> month.</li> <li>• <b>Final written exam</b> by the end of the semester</li> <li>• <b>Final Oral Exam</b> by the end of the semester</li> </ul>										
<b>i) Weighting of Assessment</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"><b>1<sup>st</sup> Midterm exam</b></td> <td style="text-align: right;"><b>15 marks</b></td> </tr> <tr> <td><b>2<sup>nd</sup> Midterm exam</b></td> <td style="text-align: right;"><b>15 marks</b></td> </tr> <tr> <td><b>Final written exam</b></td> <td style="text-align: right;"><b>30 marks</b></td> </tr> <tr> <td><b>Final Oral exam</b></td> <td style="text-align: right;"><b>40 marks</b></td> </tr> <tr> <td><b>Total</b></td> <td style="text-align: right;"><b>100 marks</b></td> </tr> </table>	<b>1<sup>st</sup> Midterm exam</b>	<b>15 marks</b>	<b>2<sup>nd</sup> Midterm exam</b>	<b>15 marks</b>	<b>Final written exam</b>	<b>30 marks</b>	<b>Final Oral exam</b>	<b>40 marks</b>	<b>Total</b>	<b>100 marks</b>
<b>1<sup>st</sup> Midterm exam</b>	<b>15 marks</b>										
<b>2<sup>nd</sup> Midterm exam</b>	<b>15 marks</b>										
<b>Final written exam</b>	<b>30 marks</b>										
<b>Final Oral exam</b>	<b>40 marks</b>										
<b>Total</b>	<b>100 marks</b>										

<b>8- List of References</b>	
<b>l) Course Notes</b>	<ul style="list-style-type: none"> <li>▪ The department notes and printed lectures.</li> <li>▪ The PowerPoint lectures and case discussions.</li> </ul>
<b>m) Essential Books (Text Books)</b>	<ul style="list-style-type: none"> <li>• Kasr El-Aini introduction to surgery (2016).</li> <li>• Bailey and Love's short practice of surgery.</li> </ul>
<b>n) Recommended Books</b>	<ul style="list-style-type: none"> <li>• Current Surgical diagnosis and treatment (2017)</li> <li>• Sabiston Textbook of surgery 20<sup>th</sup> Edition.</li> <li>• Oxford Handbook of clinical surgery (2013)</li> </ul>
<b>o) Scientific periodicals, bulletins, etc.....</b>	<ul style="list-style-type: none"> <li>❖ Surgical clinics of North America.</li> <li>❖ Recent advances in surgery.</li> <li>❖ Overview – General surgery – Mayo clinic</li> </ul>

**Course Coordinator:** Prof. Usama Saeed Imam Abdulaal

**Head of Department:** Prof. Nagwa Roshdy

**Date:** / 3 /2016

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** Oral Medicine, Periodontology and Diagnosis

### Course Specification

1- Basic Information	
Course Title: علم المناعة-٢ Immunology-2	Course Code: 632 IMM632
Level: ماجستير (جزء اول- فصل دراسي ثاني)	
Master degree in: Oral and Maxillofacial Surgery	Credit Hours: 1 Theoretical: 1
2- Aim of the course:	<p>a) To provide an understanding of the immune system and its components, the defense mechanisms that can establish a state of immunity against infection and immune-related diseases.</p> <p>b) To understand the inter-relationship of the immunologic and the inflammatory response through the studying of the different complement pathways.</p>
3- Intended Learning Outcomes of Course (ILO) :	
By the end of the course, post graduate student should be able to:	
a. Knowledge and understanding :	<p>a1- Identify the characteristics of different antigens.</p> <p>a2- Understand the structure and different functions of different types of antibodies.</p> <p>a3- Explain the classical and alternative complement cascades and outline the biological role of complement.</p>
b. Intellectual Skills:	<p>b1- illustrate how antibody-mediated immunity work to protect a host from pathogenic organisms and harmful substances.</p> <p>b2- Discover the role of the complement pathways in the immune and inflammatory responses.</p>

<b>c. Professional and Practical Skills:</b>	<p>c1- predict the underlying mechanisms of the different orodental diseases.</p> <p>c2- Relate signs and symptoms of different oro-dental diseases to the their pathogenesis.</p> <p>C3- Execute professional reports related to different applications of immunology in a reasonable, safe and ethical manner.</p>
<b>d. General and transferable skills</b>	<p>d1- Work effectively in groups and exercise leadership when appropriate.</p> <p>d2- Act responsibly in personal and professional relationships.</p> <p>d3- Recommend the need of initial medical emergencies management as basic life support.</p> <p>d4- Take responsibility for their own learning and continuing personal and professional development.</p> <p>d5- Act ethically and consistently with high moral standards in personal and public terms.</p>
<b>4- Course Contents:</b>	<p>Immunological disease (part-2)-</p> <p>4- Antigens and antibodies.</p> <p>5- Complement system.</p>
<b>5- Teaching and Learning Methods</b>	<p>1. Lectures with discussions.</p> <p>2. Small group sessions.</p> <p>3. Tutorial classes :-</p> <p style="padding-left: 40px;">a. Small group teaching. b. Computer projection.</p>
<b>6- Teaching and Learning Methods for special needs students</b>	<p style="text-align: center;">-----</p>
<b>7- Student Assessment</b>	
<b>p) Assessment Methods</b>	<p>1. Attendance criteria to assess knowledge and understanding &amp; general intellectual skills.</p> <p>2. Written exam to assess knowledge and understanding &amp; general intellectual skills.</p> <p>3. M.C.Q to assess knowledge &amp; understanding &amp; .... Professional skills &amp; general intellectual skills.</p> <p>5. Oral examination to assess knowledge and understanding &amp; professional skills &amp; general intellectual skills.</p>

<b>q) Assessment Schedule</b>	Assessment 1: midterm (written) Assessment 2: end of term (oral) Assessment 3: final (written)
<b>r) Weighting of Assessment</b>	Written Examination            30 % Oral Examination                20 % Total                                    50%
<b>8- List of References</b>	
<b>s) Course Notes</b>	- Immunology notes (Oral Medicine department).
<b>t) Essential Books (Text Books)</b>	- Basic and clinical immunology. Daniel P. Stites, McGraw-Hill Education, 1994.
<b>u) Recommended Books</b>	- Medical immunology, Tristram G. Parslaw, Daniel P. Stites, Abba I. Terr and John B. Imboden, McGraw Hill Professional, Mar 23, 2001. - Primer to the immune response by Tak Mak, Mary Saunders and Bradley Jett, 2014.
<b>v) Scientific periodicals, bulletins, etc.....</b>	<ul style="list-style-type: none"> <li>• Periodicals, Web sites, ... etc</li> <li>• Journal of Immunology Research</li> <li>• World Journal of Immunology</li> </ul>

*Course Coordinator: Shahira Gamal El Din El Ashiry*

*Head of Department: Shahira Gamal El Din El Ashiry*

*Date: 3/2016*

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** Oral Medicine, Periodontology and Diagnosis

### Course Specification

1- Basic Information		
<b>Course Title:</b> تشخيص اكلينيكي-٢ Oral diagnosis-2	<b>Course Code:</b> 636 DIAG636	<b>Level:</b> ماجستير (جزء اول- فصل دراسي ثاني)
<b>Master degree in:</b> Oral and Maxillofacial Surgery	Credit Hours: 2 Theoretical: 1 Practical: 2	
<b>2- Aim of the course:</b>	a) To review the normal anatomical landmarks to be able to distinguish abnormalities. b) To provide opportunities for review and analysis of a wide range of orodental abnormalities. c) To expand student`s analytical skills relative to clinical signs and symptoms of oro-dental diseases. d) To apply and predict the knowledge obtained for the appropriate diagnosis of oro-dental diseases.	
3- Intended Learning Outcomes of Course (ILO) :		
By the end of the course, post graduate student should be able to:		
<b>a. Knowledge and understanding :</b>	A1- describes normal landmarks both extra- and intra-orally. A2- discusses different abnormal deviations and relates it to different oro-dental diseases.	
<b>b. Intellectual Skills:</b>	B1- Distinguish between the range of normal clinical findings and abnormal deviations present. B2- illustrate the nature of patient' condition, different treatment options and possible complications in such a way that is easily understood and answer the patient questions and encourages discussion. B3- Propose an individualized treatment plan for different chief complaints. B4- Recommend the need of initial medical emergencies management as basic life support.	



<p><b>c. Professional and Practical Skills:</b></p>	<p>c1- Examine and record the patient`s vital signs and review the patient`s general condition.</p> <p>c2- Interpret signs and symptoms and physical findings in terms of their anatomic, pathologic, and functional and diagnostic significance.</p> <p>c3- amalgamate the obtained clinical and investigational data base with the evidence-based knowledge and skill of deductive reasoning to be proficient in clinical problem solving.</p> <p>c4- Compose a prioritized list of tentative diagnosis, differential diagnosis and final diagnosis of each presented chief complaint/s.</p> <p>c7- maximize patient benefits and minimize the risk of errors.</p> <p>c8- Use an appropriate formal and informal consultation with specialists in situations that are beyond the scope of their knowledge and skills.</p>
<p><b>d. General and transferable skills</b></p>	<p>d1- Demonstrate respect to all patients irrespective of their socioeconomic level and cultural beliefs.</p> <p>d2- Assess treatment options to be done by the general dentist and those that need referral and consultation.</p> <p>d3- Converse with patients in an attentive manner that conveys concern, compassion and encouragement to patients or their families.</p> <p>d4- Appraise his/her duty to manage oral health of the patient with special needs.</p> <p>d5- Apply the health and safety regulations as they affect dental practice and environment.</p> <p>D6- Demonstrate appropriate professional attitudes and behavior in dealing with staff members and helping personnel.</p> <p>D7- Choose the effective communication means with other health care professionals.</p>
<p><b>4- Course Contents:</b></p>	<p>1- Extra-oral examination.</p> <p>2- Intra-oral examination.</p>

<b>5- Teaching and Learning Methods</b>	<ol style="list-style-type: none"> <li>1. Lectures with discussions.</li> <li>2. Small group sessions.</li> <li>3. Tutorial classes :-             <ol style="list-style-type: none"> <li>a. Small group teaching.</li> <li>b. Computer projection.</li> <li>c. Role playing.</li> </ol> </li> <li>4. Case Study :-             <ol style="list-style-type: none"> <li>a. Demonstration using computer projection.</li> <li>b. Demonstrate with a patient.</li> <li>c. Discussion and practice of the diagnostic skills.</li> </ol> </li> </ol>								
<b>6- Teaching and Learning Methods for special needs students</b>	<p>-----</p>								
<b>7- Student Assessment</b>									
<b>a) Assessment Methods</b>	<ol style="list-style-type: none"> <li>2. Written exam to assess knowledge and understanding &amp; general intellectual skills.</li> <li>3. M.C.Q to assess knowledge &amp; understanding &amp; .... Professional skills &amp; general intellectual skills.</li> <li>4. Practice exam to assess knowledge and understanding &amp; professional skills &amp; general intellectual skills.</li> <li>5. Oral examination to assess knowledge and understanding &amp; professional skills &amp; general intellectual skills.</li> </ol>								
<b>b) Assessment Schedule</b>	<p>Assessment 1: midterm (written)            Assessment 2: end of term (practical)            Assessment 3: end of term (oral)            Assessment 4: final (written)</p>								
<b>c) Weighting of Assessment</b>	<table border="0"> <tr> <td>Written Examination</td> <td style="text-align: right;">60 %</td> </tr> <tr> <td>Oral Examination</td> <td style="text-align: right;">20 %</td> </tr> <tr> <td>Practical Examination</td> <td style="text-align: right;">20 %</td> </tr> <tr> <td>Total</td> <td style="text-align: right;">100%</td> </tr> </table>	Written Examination	60 %	Oral Examination	20 %	Practical Examination	20 %	Total	100%
Written Examination	60 %								
Oral Examination	20 %								
Practical Examination	20 %								
Total	100%								
<b>8- List of References</b>									
<b>a) Course Notes</b>	<p>- Oral diagnosis notes (Oral Medicine department)</p>								

<b>b) Essential Books (Text Books)</b>	<ul style="list-style-type: none"><li>- Principles of Oral Diagnosis; Gary C Coleman; John F Nelson, Illustrated Edition, 1993.</li><li>- Textbook of oral diagnosis, Prabhu SR, oxford university Press, 2007.</li></ul>
<b>c) Recommended Books</b>	<ul style="list-style-type: none"><li>- Text book of Oral Medicine, Oral Diagnosis and Oral Radiology Ravikiran Ongole, Elsevier (A Division of Reed Elsevier India Pvt. Limited), 2009.</li></ul>
<b>d) Scientific periodicals, bulletins, etc.....</b>	<ul style="list-style-type: none"><li>• Periodicals, Web sites, ... etc</li><li>• Journal of Oral surgery, Oral Medicine, Oral pathology, Oral Radiology.</li></ul>

*Course Coordinator: Shahira Gamal el din El Ashiry*

*Head of Department: Shahira Gamal El Din El Ashiry*

*Date:*

*3/2016*

### *Elective courses*

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** oral medicine periodontology diagnosis and radiology

### *Course Specification*

1- Basic Information		
<b>Course Title: Laser applications in dentistry</b>	<b>Course Code:</b> 632	<b>Level:</b> 1 <sup>st</sup> year master degree Elective course
<b>Master degree in:</b> all specialties	Credit Hours: 2 / Theoretical:2 / Practical:0	
<b>2- Aim of the course:</b>	<ol style="list-style-type: none"> <li>1. To demonstrate general understanding of laser use in dentistry</li> <li>2. To improve the health and wellbeing of patients through the proper use of laser technology.</li> <li>3. To overview the research and clinical aspects of the safe and effective uses of lasers in dentistry.</li> </ol>	
3- Intended Learning Outcomes of Course (ILO) :		
By the end of the course, post graduate student should be able to:		
<b>a. Knowledge and understanding :</b>	<ol style="list-style-type: none"> <li>1. Identify the scientific and clinical principles of lasers in dentistry.</li> <li>2. Discuss basic concepts of laser physics and segmentation of wavelengths.</li> <li>3. Explain the nature of light, the light spectrum and laser wavelengths.</li> <li>4. Explain the basic elements of laser - tissue interaction.</li> <li>5. Become familiar with different types of laser used in dentistry</li> <li>6. Identify laser set up, delivery system and power settings, laser applications used in dental soft and hard tissue management.</li> </ol>	

<p><b>b. Intellectual Skills:</b></p>	<p>1- Make decisions regarding proper laser type, mode, watt, and frequency. 2- Predict the wide advantages of using laser in the dental office.</p>
<p><b>c. Professional and Practical Skills:</b></p>	<p>1- Use of lasers through hands-on clinical simulation. 2- Apply Laser in dental soft and hard tissue management. 3- integrate laser use in treatment successfully 4- Use laser safety and infection control in the dental practice.</p>
<p><b>d. General and transferable skills</b></p>	<p>1- Assess regularly one's knowledge and skills, and seek additional information to correct deficiencies and enhance performance. 2- Implement and monitor infection control and environmental safety programs according to current standards.</p>

<p><b>4- Course Contents:</b></p>	<ul style="list-style-type: none"> <li>• Introduction to the course</li> <li>• Differences between laser and visible light</li> <li>• Differences between laser and x ray</li> </ul>		
	<ul style="list-style-type: none"> <li>• Laser physics and beam generation</li> <li>• General characters of laser beam</li> </ul>		
	<ul style="list-style-type: none"> <li>• Lasers in dentistry: uses, advantages, and limitations</li> </ul>		
	<ul style="list-style-type: none"> <li>• Different types and modes of laser</li> </ul>		
	<ul style="list-style-type: none"> <li>• CO2 laser, Properties and advantages</li> </ul>		
	<ul style="list-style-type: none"> <li>• Diode laser, Properties and advantages</li> </ul>		
	<ul style="list-style-type: none"> <li>• Nd-YAG laser, Properties and advantages</li> <li>• Low level laser applications</li> <li>• Soft tissue laser procedures</li> <li>• Hard tissue laser procedures</li> </ul>		
	<ul style="list-style-type: none"> <li>• Laser interaction with biological tissues</li> </ul>		
	<ul style="list-style-type: none"> <li>• Photo-chemical interaction and its applications</li> <li>• biostimulation</li> </ul>		
	<ul style="list-style-type: none"> <li>• Photo-thermal interaction and its applications</li> </ul>		
	<ul style="list-style-type: none"> <li>• Photo-electrical interaction and its applications</li> </ul>		
	<ul style="list-style-type: none"> <li>• Photo-mechanical interaction and its applications</li> </ul>		
	<ul style="list-style-type: none"> <li>• Laser safety</li> </ul>		
<p><b>5- Teaching and Learning Methods</b></p>	<p>Lectures by PPS presentations  Open – discussion lectures  Clinical training:</p> <ul style="list-style-type: none"> <li>• Demonstrations and videos</li> <li>• Case studies</li> <li>• Work sheets and surveys</li> <li>• Report back sessions</li> </ul>		

<b>6- Teaching and Learning Methods for special needs students</b>	
<b>7- Student Assessment</b>	
<b>a) Assessment Methods</b>	<ul style="list-style-type: none"> <li>• continuous formative quizzes to assess knowledge and understanding</li> <li>• Group work to assess practical skills, team work, and presentation</li> <li>• Assignment to assess understanding skills</li> <li>• Final Written examination to assess knowledge and understanding.</li> </ul>
<b>b) Assessment Schedule</b>	<ul style="list-style-type: none"> <li>▪ Assessment 1: first midterm (written/week 5)</li> <li>▪ Assessment 2: group presentation (pps /week 12)</li> <li>▪ Assessment 3: second midterm (written/ week 10)</li> <li>▪ Assessment 4: Final written (week 15)</li> </ul>
<b>c) Weighting of Assessment</b>	Written Examination 100 %
<b>8- List of References</b>	
<b>a) Course Notes</b>	<ul style="list-style-type: none"> <li>• Course notes available</li> </ul>
<b>b) Essential Books (Text Books)</b>	<ul style="list-style-type: none"> <li>• Dental Applications of Advanced Lasers 2004 Edition Jeffrey G. Manni</li> </ul>
<b>c) Recommended Books</b>	<ul style="list-style-type: none"> <li>• Atlas of Laser Applications in Dentistry Coluzzi DJ, Convissar RA. 2007</li> </ul>
<b>d) Scientific periodicals, bulletins, etc.....</b>	<ul style="list-style-type: none"> <li>• ALD academy of laser dentistry periodicals <a href="http://www.laserdentistry.org">http://www.laserdentistry.org</a></li> </ul>

*Course Coordinator: prof. Gihan Omar*

*Head of Department: prof. Shahira Elashiry*

*Date: /3 /2016*

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** general supplementary sciences

### *Course Specification*

<b>1- Basic Information</b>		
<b>Course Title:</b> biochemistry	<b>Course Code:</b> ٦٢٣	<b>Level:</b> first or second part
<b>Master degree in:</b> Elective course for all specialities	Credit Hours: Theoretical:...2 Practical:...0	

<b>2- Aim of the course:</b>	<ol style="list-style-type: none"> <li>1) Explains the Chemistry and the metabolism of Biological Molecules.</li> <li>2) understand the chemical function of Biomolecules and highlights the importance of individual molecules inside the cell.</li> <li>3) understand the metabolic changes of different molecules inside the body.</li> <li>4) understand the basic principles of errors of metabolism and their reflection on the health of the individual.</li> </ol>
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<b>3- Intended Learning Outcomes of Course (ILO) :</b> By the end of the course, post graduate student should be able to:	
<b>a) Knowledge and understanding :</b>	A1- Describe the structure and importance of carbohydrates, lipids, and proteins of medical importance. A2- Describe the metabolic pathways A3- Discuss the principles of metabolic pathways. A4- Point out the importance of vitamins. A5- Demonstrate the basic structure and functions of Immunoglobulins A6- Describe the basic principles of some metabolic errors A7- Discuss the basic principles of molecular Biology



<b>b) Intellectual Skills:</b>	<p>b1- Differentiate between structures of carbohydrates, lipids and proteins.</p> <p>b2- Explain the importance of some molecular biology techniques</p> <p>b3- Explain the role of enzymes in regulation of chemical reactions in the body</p> <p>b4- Differentiate between metabolism in health and in disease</p> <p>b5- Explain the role of vitamin deficiency in development of some diseases</p>
<b>c) Professional and Practical Skills:</b>	<p>C1- Perform basic laboratory tests</p> <p>c2- Identify unknown carbohydrate solution</p> <p>c3- Identify unknown protein solution</p> <p>c4- Detect abnormal constituents of urine</p>
<b>d) General and transferable skills</b>	<p>d1- Work effectively in groups.</p> <p>d2- Exercise leadership when appropriate.</p> <p>d3- Act responsibly in personal and professional relationships.</p> <p>d4- Take responsibility for their own learning and continuing personal and professional development.</p> <p>d5- Act ethically and consistently with high moral standards in personal and public forums.</p>

<b>4- Course Contents:</b>	1	Chemistry and Metabolism of Carbohydrates
	2	Chemistry and Metabolism of Lipids
	3	Chemistry and Metabolism of Proteins and Amino acids
	4	Chemistry of Immunoglobulins
	5	Chemistry of Nucleotides and Nucleic acids
	6	Chemistry of Enzymes
	7	Vitamins
	8	Regulation of blood glucose level and Diabetes Mellitus

<b>5- Teaching and Learning Methods</b>	<ul style="list-style-type: none"> <li>• Lectures</li> <li>• Practical training</li> <li>• Small group discussion</li> </ul>
<b>6- Teaching and Learning Methods for special needs students</b>	<ul style="list-style-type: none"> <li>• Demonstration &amp; instructive Lessons with regular checkup according to their special needs.</li> </ul>
<b>7- Student Assessment</b>	
<b>a) Assessment Methods</b>	Written examination (short questions, multiple choice)
<b>b) Assessment Schedule</b>	Final written at the end of the course
<b>c) Weighting of Assessment</b>	100% written exam

<b>8- List of References</b>	
<b>a. Course Notes</b>	
<b>b. Essential Books (Text Books)</b>	Lippincott's illustrated Reviews: Biochemistry, 7 <sup>th</sup> edition, 2014
<b>c. Recommended Books</b>	Harper's Illustrated Biochemistry 30 <sup>th</sup> edition, 2015
<b>d. Scientific periodicals, bulletins, etc.....</b>	

**Course Coordinator: Dr. Nagwa Roshdy**

**Date: 3 /2016**

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** oral and maxillofacial surgery

### *Course Specification*

<b>1- Basic Information</b>		
<b>Course Title:</b> medical emergency in dentistry	<b>Course Code:</b> ٦٣٣	<b>Level:</b> first or second part
<b>Master degree in:</b> <b>Elective course for all specialities</b>	<b>Credit Hours:</b> Theoretical:...2 Practical:...0	

<b>2- Aim of the course:</b>	<b>To make the candidates familiar with prevention and management of medical emergencies in dental clinic</b>
<b>3- Intended Learning Outcomes of Course (ILO) :</b> <b>By the end of the course, post graduate student should be able to:</b>	
<b>a) Knowledge and understanding :</b>	<ol style="list-style-type: none"> <li>1- Summarize local anesthetic drugs.</li> <li>2- Memorize Safe precautions for Dental Chair Anesthesia.</li> <li>3- Define types of common medical emergencies in dentistry.</li> <li>4- Identify Resuscitation Council's Guidelines</li> <li>5- Recognize special demands for Pediatric medical emergencies.</li> <li>6- Identify emergency drug kit and equipment, and the knowledge to properly use all items.</li> </ol>
<b>b) Intellectual Skills:</b>	<ol style="list-style-type: none"> <li>1- calculate Appropriate dosage of drug related emergencies</li> <li>2- select patients susceptible to medical emergency</li> </ol>

<p><b>c) Professional and Practical Skills:</b></p>	<ol style="list-style-type: none"> <li>1- Manage Airway obstruction.</li> <li>2- manage medical emergencies in dentistry.</li> <li>3- Apply medical emergency drugs</li> <li>4- Perform Basic life support maneuvers</li> <li>5- Examine patients prior to treatment</li> <li>6- Evaluate Laboratory investigations</li> </ol>
<p><b>d) General and transferable skills</b></p>	<ol style="list-style-type: none"> <li>1- Lead a team and work in a team</li> <li>2- Manage time effectively</li> </ol>

<p><b>4- Course Contents:</b></p>	<ul style="list-style-type: none"> <li>• Pharmacology , dosages of emergency &amp; local anesthetic drugs.</li> <li>• Differential diagnosis of Common medical emergencies in dental practice.</li> <li>• Simplified approach for preventing &amp; treatment of medical emergencies</li> <li>• Ambulatory Dental Chair anesthesia.</li> <li>• Pediatric medical emergencies</li> <li>• Medicolegal aspect of medical emergencies in dental practice</li> <li>• Medical equipments needed in dental office</li> <li>• Basic life support maneuvers</li> <li>• Dental sedation and safety issues regarding sedation</li> </ul>
<p><b>5- Teaching and Learning Methods</b></p>	<p>Interactive lectures Discussion. Demonstrations. Brain storming. Role plays</p>

<b>6- Teaching and Learning Methods for special needs students</b>	<ul style="list-style-type: none"> <li>Demonstration &amp; instructive Lessons with regular checkup according to their special needs.</li> </ul>										
<b>7- Student Assessment</b>											
<b>a) Assessment Methods</b>	<ul style="list-style-type: none"> <li>Reflective Student Essays</li> <li>Comprehensive quizzes</li> <li>written Exam</li> </ul>										
<b>b) Assessment Schedule</b>	<table border="0"> <tr> <td>2<sup>nd</sup> week</td> <td><b>Presentation 1</b></td> </tr> <tr> <td>4<sup>th</sup> week</td> <td><b>Assignment 1</b></td> </tr> <tr> <td>10<sup>th</sup> week</td> <td><b>Presentation 2</b></td> </tr> <tr> <td>11<sup>th</sup> week</td> <td><b>Assignment 2</b></td> </tr> <tr> <td>Final exam</td> <td><b>Written exams</b></td> </tr> </table>	2 <sup>nd</sup> week	<b>Presentation 1</b>	4 <sup>th</sup> week	<b>Assignment 1</b>	10 <sup>th</sup> week	<b>Presentation 2</b>	11 <sup>th</sup> week	<b>Assignment 2</b>	Final exam	<b>Written exams</b>
2 <sup>nd</sup> week	<b>Presentation 1</b>										
4 <sup>th</sup> week	<b>Assignment 1</b>										
10 <sup>th</sup> week	<b>Presentation 2</b>										
11 <sup>th</sup> week	<b>Assignment 2</b>										
Final exam	<b>Written exams</b>										
<b>c) Weighting of Assessment</b>	100% written exam										

<b>8- List of References</b>	
<b>a. Course Notes</b>	
<b>b. Essential Books (Text Books)</b>	<b>Elsevier</b> :Medical Emergencies in the Dental Office 7 <sup>th</sup> Edition
<b>c. Recommended Books</b>	<b>Wiley</b> : Basic Guide to Medical Emergencies in the Dental Practice
<b>d. Scientific periodicals, bulletins, etc.....</b>	The American journal of emergency medicine The Journal of Emergency Medicine

**Course Coordinator: Dr. Aktham Adel**

**Date: 3 /2016**

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** oral and maxillofacial surgery

### *Course Specification*

<b>1- Basic Information</b>		
<b>Course Title:</b> implantology	<b>Course Code:</b> ٦٢٩	<b>Level:</b> first or second part
<b>Master degree in:</b> Elective course for all specialties	<b>Credit Hours:</b> Theoretical: 2 Practical: 0	

<b>2- Aim of the course:</b>	<ol style="list-style-type: none"> <li>1) To educate the students about the basics of surgical, biological, prosthetic and periodontal considerations that should be followed during implantation.</li> <li>2) To familiarize the student with different recent treatment modalities of varying difficulties.</li> <li>3) To enable students to detect the causes of implant failure and their management.</li> <li>4) To educate students about the care and maintenance aspect of the implant</li> </ol>
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**3- Intended Learning Outcomes of Course (ILO) :**  
**By the end of the course, post graduate student should be able to:**

<b>a) Knowledge and understanding :</b>	<p>A1- identify the basics of diagnosis with the treatment planning of the badly broken and/or missing teeth for implantation.</p> <p>A2- Recognize the biological and periodontal aspects of the implant.</p> <p>A3- Identify the principles and types of luting cements</p> <p>A4- discuss treatment options for un-restorable and/or missing teeth.</p>
<b>b) Intellectual Skills:</b>	<p>B1- order the steps of implant preparation in order to fulfill biological and periodontal considerations</p> <p>B2- classify properly the parameters of implant success and failure.</p>

<p><b>c) Professional and Practical Skills:</b></p>	<p>C1-Practice the steps of diagnosis, treatment planning, surgical procedures, and follow up of implant cases.          c2- Perform properly the steps of implantation taking into consideration the biological and periodontal aspects          C3- Perform properly the different steps of prosthetic procedures</p>
<p><b>d) General and transferable skills</b></p>	<p>D1- respect to all patients irrespective to their socioeconomic levels, cultures or religious beliefs          D2- Implement infection control policies.          D3- Life-long learning</p>

<p><b>4- Course Contents:</b></p>	<p><b>Theory of Osseointegration</b></p>
	<p><b>Armamentarium and Types of implants</b></p>
	<p><b>Surgical Techniques</b></p>
	<p><b>Diagnosis of Peri-implant mucositis &amp; Peri-implant implantitis</b></p>
	<p><b>Treatment of Peri-implant mucositis &amp; Peri-implant implantitis</b></p>
	<p><b>Principles of implant location; prosthetic &amp; anatomical considerations</b></p>
	<p><b>Prosthetic template; construction &amp; uses</b></p>
	<p><b>Types of impression techniques in prosthetic implant dentistry</b></p>
	<p><b>Types of implant supported prosthesis</b></p>
	<p><b>Planning and follow up</b></p>
<p><b>Radiographic assessment and 3D evaluation</b></p>	
<p><b>5- Teaching and Learning Methods</b></p>	<ul style="list-style-type: none"> <li>• Lectures</li> <li>• Small group discussion</li> </ul>

<b>6- Teaching and Learning Methods for special needs students</b>	-----
<b>7- Student Assessment</b>	
<b>a) Assessment Methods</b>	Written examination (short questions, multiple choice )
<b>b) Assessment Schedule</b>	Final written at the end of the course
<b>c) Weighting of Assessment</b>	100 written exam

<b>8- List of References</b>	
<b>a. Course Notes</b>	
<b>b. Essential Books (Text Books)</b>	Contemporary implant dentistry, 3 <sup>rd</sup> . ed., Carl Misch, 2007
<b>c. Recommended Books</b>	EUREKA R2: concept, principle, and clinical cases, 1 <sup>st</sup> ed., 2015
<b>d. Scientific periodicals, bulletins, etc.....</b>	

**Course Coordinator: Dr. Nelly Hamouda**

**Date: 3 /2016**



### **Second part courses**

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** Oral and Maxillofacial Surgery

### **Course Specification**

<b>1- Basic Information</b>		
<b>Course Title:</b> Oral Surgery	<b>Course Code:</b> 737	<b>Level:</b> Second Part, 1 <sup>st</sup> semester
<b>Master degree in:</b> Oral and Maxillofacial Surgery	Credit Hours: 4 Theoretical:2 Practical:4	

<b>2- Aim of the course:</b>	<ol style="list-style-type: none"> <li>1) To Learn the art of assessing patients and their suitability for all minor surgical procedures, and Study and learn the methods and techniques employed to institute infection control measures, sterilization, asepsis and disinfection.</li> <li>2) To Enable the student to have intellectual and clinical skills in closed exodontias and minor oral surgical procedures based on an outpatient population.</li> </ol>
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**3- Intended Learning Outcomes of Course (ILO):**

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

<p><b>a. Knowledge and understanding :</b></p>	<p>3.a.1 Describe principles of sterilization, disinfection and asepsis</p> <p>3.a.2. Discuss the indications and contra-indications of tooth extraction</p> <p>3.a.3. Identify and list the armentarium and flap designs needed for minor oral surgery procedures</p> <p>3.a.4. identify and diagnose those impacted teeth and mangemnt of them</p> <p>3.a.5. discuss the management of medical emergencies that may occur in the dental office</p> <p>3.a.6. Describe the physiologic mechanisms of pain modulation and pain control</p> <p>3.a.7. discuss the management of medical emergencies that may occur in the dental office</p> <p>3.a.8. identify the causes of odontogenic infection, mechanisms, routes of spread of infection and principles of treatment</p> <p>3.a.9. Identify different preprosthetic abnormalities</p>
<p><b>b. Intellectual Skills:</b></p>	<p>3.b.1. Relate the advantages and disadvantages of relevant treatment plans of impacted teeth</p> <p>3.b.2. Relate between oral health problems, nutrition, general health, drugs and diseases that have impact on dental care.</p>
<p><b>c. Professional and Practical Skills:</b></p>	<p>3.b.3. prepare the armentarium and the treatment environment for minor oral surgery procedures</p> <p>3.b.4. Execute infection control and asepsis standards</p> <p>3.b.5. Perform exodontia and basic minor oral surgery procedures</p> <p>3.b.6. Write appropriate prescription of drugs and monitor their effectiveness and safety particularly in the management of fear and anxiety</p> <p>3.b.7. manage medical emergencies that may arise in the outpatient clinic</p> <p>3.b.8. apply the basic pre-prosthetic surgical procedures of the partially and completely edentulous patient</p> <p>3.b.9. manage acute and chronic odontogenic infections</p>

<p><b>d. General and transferable skills</b></p>	<ol style="list-style-type: none"> <li>1. Communicate effectively.</li> <li>2. Use information technology to serve professional practice.</li> <li>3. Self-assess and identify personal learning needs.</li> </ol>
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<p><b>4- Course Contents:</b></p>	<ol style="list-style-type: none"> <li>1. Infection control</li> <li>2, Preoperative assessment of patient undergoing surgical procedures.</li> <li>3, Dentoalveolar surgery and impacted teeth</li> <li>4, Oral infections and antibiotics.</li> <li>5, Preprosthetic surgery.</li> <li>6. Systemic diseases.</li> <li>7. Medical emergencies.</li> <li>8. Management of pain and anxiety.</li> </ol>
<p><b>5- Teaching and Learning Methods</b></p>	<p>interactive Lectures Seminars Researches Practical cases Solving problems</p>
<p><b>6- Teaching and Learning Methods for special needs students</b></p>	<p>Individual learning</p>
<p><b>7- Student Assessment</b></p>	
<p><b>a) Assessment Methods</b></p>	<p>written ,oral , and practical exams</p>
<p><b>b) Assessment Schedule</b></p>	<p>Final written ,oral , and practical exams at the end of the semester</p>
<p><b>c) Weighting of Assessment</b></p>	<p>Final written 120 Final practical 40 Final oral 40</p>

<b>8- List of References</b>	
<b>a) Course Notes</b>	NO
<b>b) Essential Books (Text Books)</b>	<b>Contemporary Oral and Maxillofacial Surgery</b> By Peterson, L.J., Ellis, E.L., Hupp, J.R. and Tucker, M.R.6 <sup>th</sup> edition, 2013
<b>c) Recommended Books</b>	<a href="#">Advances in oral tissue engineering</a> / Edited by Masaru Murata and In-Woong Um. by Murata, Masaru [editor.]   Um, In-Woong [editor.].2014
<b>d) Scientific periodicals, bulletins, etc.....</b>	<a href="http://www.pubmed.com">www.pubmed.com</a> <a href="http://www.sciencedirect.com">www.sciencedirect.com</a> <b>Egyptian Knowledge Bank</b>

*Course Coordinator: prof. lobna abdelaziz*

*Head of Department: prof. Ahmed Barakat*

*Date: / 3 /2016*

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** Oral and Maxillofacial Surgery

### *Course Specification*

1- Basic Information		
<b>Course Title:</b> General anesthesia & local anesthesia	<b>Course Code:</b> 739	<b>Level:</b> Second Part, 1 <sup>st</sup> semester
<b>Master degree in:</b> Oral and Maxillofacial Surgery	Credit Hours: 2 Theoretical:1 Practical:2	

<b>2- Aim of the course:</b>	<ol style="list-style-type: none"> <li>1) To train students in administering local anesthesia for the different dental and oral surgery procedures and To educate students local and systemic complications of local anesthesia and their management.</li> <li>2) To Introduce the student to the basic principles and techniques of general anaesthesia.</li> </ol>
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### 3- Intended Learning Outcomes of Course (ILO):

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

<p><b>a. Knowledge and understanding :</b></p>	<p>3.a.1. Describe the theories and fundamentals related to pain pathway as well as related basic sciences. 3.a.2. Describe the physiologic mechanisms of pain modulation and pain control 3.a.3. Identify the mechanism of action of local and general anesthetics 3.a.4.. Describe the different local anesthetic techniques 3.a.5. discuss the local and systemic complications of local anesthesia</p>
<p><b>b. Intellectual Skills:</b></p>	<p>3.b.1. Link different knowledge to correlate the significance of human anatomy with local and general anesthesia techniques and concepts. 3.b.2. Consider appropriately patients' rights, particularly with regard to confidentiality and valid consent, and of patients' obligations.</p>
<p><b>c. Professional and Practical Skills:</b></p>	<p>3.c.1. Master basic and modern professional skills in management of different complications of local and general anesthesia. 3.c.2. prepare the armentarium and the treatment environment for local anesthetic technique</p>
<p><b>d. General and transferable skills</b></p>	<p>3.d.1. Use information technology to serve professional practice. 3.d.2. Self-assess and identify personal learning needs.</p>
<p><b>4- Course Contents:</b></p>	<p>1.G.A 2. Neurophysiology and pharmacology of L.A. 3. L.A complications and drugs interactions. 4. Innervations and techniques of L.A. and complications. 5. Preparations of medically compromised patients for anesthesia and oral surgery</p>

<b>5- Teaching and Learning Methods</b>	Interactive Lectures Seminars Researches Clinical training (demonstration, skill practice, chair-side supervision)
<b>6- Teaching and Learning Methods for special needs students</b>	Individual learning
<b>7- Student Assessment</b>	
<b>a) Assessment Methods</b>	written ,oral , and practical exams
<b>b) Assessment Schedule</b>	Final written ,oral , and practical exams at the end of the semester
<b>c) Weighting of Assessment</b>	Final written 60 Final practical 20 Final oral 20
<b>8- List of References</b>	
<b>a) Course Notes</b>	No
<b>b) Essential Books (Text Books)</b>	<b>Handbook of Local Anesthesia</b> By Stanley F. Malamed. Mosby,6 <sup>th</sup> editionn2013
<b>c) Recommended Books</b>	<b>Oral Sedation for Dental Procedures in Children</b> Editors: <b>Wilson</b> , Stephen (Ed.) <b>Local Anaesthesia in Dentistry</b> Editors: <b>Baart</b> , Jacques A., <b>Brand</b> , Henk S. (Eds.)
<b>d) Scientific periodicals, bulletins, etc.....</b>	<a href="http://www.pubmed.com">www.pubmed.com</a> <a href="http://www.sciecedirect.com">www.sciecedirect.com</a> <b>Egyptian Knowledge Bank</b>

*Course Coordinator: prof. Lobna Abdelaziz*

*Head of Department: Prof. Ahmed Barakat*

*Date: / 3 /2016*

**University:**Future University in Egypt.  
**Faculty:**Faculty of Oral and Dental Medicine  
**Department:**Oral and Maxillofacial Surgery

### *Course Specification*

1- Basic Information		
<b>Course Title:</b> Maxillofacial Surgery	<b>Course Code:</b> 741	<b>Level:</b> Second Part 1 <sup>st</sup> semester
<b>Master degree in:</b> Oral and Maxillofacial Surgery	Credit Hours: 4 Theoretical:2 Practical:4	

<b>2- Aim of the course:</b>	<p>1.1. To provide the postgraduate student with the specialized knowledge and integrate it with relevant knowledge in oral tumors, and to Master an appropriate range of specialized professional skills, to serve practice in Oral &amp; Maxillofacial Trauma and TMJ diagnosis and management.</p> <p>1.2. To manage of different medical emergencies in dental clinic and theater room and emergency room.</p>
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<b>3- Intended Learning Outcomes of Course (ILO):</b> <b>By the end of the course, post graduate student should be able to:</b>	
<b>a. Knowledge and understanding :</b>	<p>3.a.1. identify the protocol in the management of the hospitalized patient</p> <p>3.a.2. Identify the principles of assessment and treatment of oral and maxillofacial trauma.</p> <p>3.a.3. Describe the principal reconstructive surgical techniques used to correct maxillofacial deformities.</p> <p>3.a.4. discuss the different temporomandibular joint disorders</p> <p>3.a.5. Describe the surgical management of temporomandibular joint disorders</p>



<p><b>b. Intellectual Skills:</b></p>	<p>3.b.1. Analyze and evaluate information and measurement from different diagnostic modalities in oral &amp; maxillofacial surgery for oral tumors and TMJ disorders.</p> <p>3.b.2. Link different knowledge to differentiate between pathological lesions of oral cavity.</p> <p>3.b.3. Interpret clinical laboratory data and special investigations to help formulate a proper diagnosis and treatment plan</p>
<p><b>c. Professional and Practical Skills:</b></p>	<p>3.c.1. perform an appropriate physical examination including intraoral and head and neck examination</p> <p>3.c.2. Properly inspect and examine maxillofacial trauma patients</p> <p>3.c.3. Master basic and modern professional skills in management of hard and soft tissue reconstruction.</p> <p>3.c.4. Write and evaluate professional reports.</p> <p>3.c.5. Deal with the emergency treatment of the patient who have sustained facial trauma.</p>
<p><b>d. General and transferable skills</b></p>	<ol style="list-style-type: none"> <li>1. Communicate effectively.</li> <li>2. Use information technology to serve professional practice.</li> <li>3. Self-assess and identify personal learning needs.</li> </ol>

<p><b>4- Course Contents:</b></p>	<ol style="list-style-type: none"> <li>1, Maxillofacial trauma (1st aid, diagnosis, mangement)</li> <li>2. Temporomandibular joint disorders (diagnosis, recent treatment modalities )</li> <li>3. Management of pathologic disorders related to head and neck structures</li> <li>4. Surgical theater &amp; hospital discipline in oral &amp; maxillofacial practice.</li> </ol>
<p><b>5- Teaching and Learning Methods</b></p>	<p>interactive Lectures Seminars Researches Practical cases Solving problems</p>

<b>6- Teaching and Learning Methods for special needs students</b>	Individual learning
<b>7- Student Assessment</b>	
<b>a) Assessment Methods</b>	written ,oral , and practical exams
<b>b) Assessment Schedule</b>	Final written ,oral , and practical exams at the end of the semester
<b>c) Weighting of Assessment</b>	Final written 120 Final practical 40 Final oral 40

<b>8- List of References</b>	
<b>e) Course Notes</b>	NO
<b>a) Essential Books (Text Books)</b>	<b>Contemporary Oral and Maxillofacial Surgery</b> By Peterson, L.J., Ellis, E.L., Hupp, J.R. and Tucker, M.R.6 <sup>th</sup> edition, 2013
<b>b) Recommended Books</b>	<p><a href="#">Cone-beam volumetric imaging in dental, oral and maxillofacial medicine : fundamentals, diagnostics and treatment planning / Jörg Neugebauer, Joachim E. Zoller.2014</a></p> <p><a href="#">Advances in oral tissue engineering / Edited by Masaru Murata and In-Woong Um. by Murata, Masaru [editor.]   Um, In-Woong [editor.].2014</a></p> <p><a href="#">Computer-guided applications : for dental implants, bone grafting, and reconstructive surgery / Marco Rinaldi, Scott D. Ganz, Angelo Mottola ; translation from the Italian by Dr. Stefano Lauriola.2016</a></p> <p><a href="#">Atlas of Oral Diseases : A Guide for Daily Practice / Isaïc van der Waal.by Van der Waal, Isaïc.2016</a></p>

c) Scientific periodicals,  
bulletins, etc.....

[www.pubmed.com](http://www.pubmed.com)  
[www.sciencedirect.com](http://www.sciencedirect.com)  
Egyptian Knowledge Bank

*Course Coordinator: prof. Sameh Mekhemer*

*Head of Department: Prof. Ahmed Barakat*

*Date: / 3 /2016*

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** Oral and Maxillofacial Surgery

### *Course Specification*

1- Basic Information		
<b>Course Title:</b> Oral Surgery	<b>Course Code:</b> 738	<b>Level:</b> Second Part, 2 <sup>nd</sup> semester
<b>Master degree in:</b> Oral and Maxillofacial Surgery	Credit Hours: 4 Theoretical:2 Practical:4	

<b>2- Aim of the course:</b>	To Enable the student to have intellectual and clinical skills in minor oral surgical procedures and advanced preprosthetic surgical procedures based on an outpatient population.
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3- Intended Learning Outcomes of Course (ILO): By the end of the course, post graduate student should be able to:	
<b>a. Knowledge and understanding :</b>	3.a.1. Describe the surgical technique for dental implant placement and possible complications 3.a.2. Identify the role of oral and maxillofacial surgeons in the placement of implants 3.a.3. Describe the management of oroantral communications / fistula. 3.a.4. discuss complications and management of odontogenic infections 3.a.5. Identify salivary gland disorders 3.a.6. Identify indications and contra-indications for dental implant placement

<p><b>b. Intellectual Skills:</b></p>	<p>3.b.1. Relate the advantages and disadvantages of relevant treatment plans oforoantral closure</p> <p>3.b.2. Link different knowledge to differentiate between salivary gland disorders and assess aproprate modalities of treatment.</p> <p>3.b.3 Differentiate between Orofacial pain, referred pain, atypical pain.</p>
<p><b>c. Professional and Practical Skills:</b></p>	<p>3.c.1. apply the advanced pre-prosthetic surgical procedures of the partially and completely edentulous patient</p> <p>3.c.2. Manage complicated head and neck infections</p> <p>3.c.4. Perform implant placement and sinus lifting procedures</p> <p>3.c.5. Perform a clinical examination of the maxillary sinus and its diseases</p>
<p><b>d. General and transferable skills</b></p>	<p>3.d.1. Use information technology to serve professional practice.</p> <p>3.d.2. Self-assess and identify personal learning needs.</p>

<p><b>4- Course Contents:</b></p>	<p>1. Cysts and cyst like lesions.</p> <p>2. Maxillary sinus diseases.</p> <p>3. Salivary glands disorders.</p> <p>4. Implantology.</p> <p>5. Complicated head and neck infections</p> <p>6. Advanced pre prosthetic surgery.</p> <p>7. Orofacial pain, referred pain, atypical pain.</p> <p>8. Evaluation of surgical patients and patients with systemic diseases.</p>
<p><b>5- Teaching and Learning Methods</b></p>	<p>Interactive Lectures</p> <p>Seminars</p> <p>Researches</p> <p>Clinical training ( demonstration, skill practice, chair-side supervision )</p> <p>Tutorial classes ( small group teaching, tutorial demonisteration, case presentation, radiographic interpretation, hands on workshop )</p>

<b>6- Teaching and Learning Methods for special needs students</b>	Individual learning
<b>7- Student Assessment</b>	
<b>a) Assessment Methods</b>	written ,oral , and practical exams
<b>b) Assessment Schedule</b>	Final written ,oral , and practical exams at the end of the semester
<b>c) Weighting of Assessment</b>	Final written 120 Final practical 40 Final oral 40

<b>8- List of References</b>	
<b>a) Course Notes</b>	----
<b>b) Essential Books (Text Books)</b>	<b>Contemporary Oral and Maxillofacial Surgery</b> By Peterson, L.J., Ellis, E.L., Hupp, J.R. and Tucker, M.R. 2013
<b>c) Recommended Books</b>	<p><a href="#">Cone-beam volumetric imaging in dental, oral and maxillofacial medicine : fundamentals, diagnostics and treatment planning</a> / Jörg Neugebauer, Joachim E. Zoller.2014</p> <p><a href="#">Advances in oral tissue engineering</a> / Edited by Masaru Murata and In-Woong Um. by Murata, Masaru [editor.]   Um, In-Woong [editor.].2014</p> <p><a href="#">Computer-guided applications : for dental implants, bone grafting, and reconstructive surgery</a> / Marco Rinaldi, Scott D. Ganz, Angelo Mottola ; translation from the Italian by Dr. Stefano Lauriola.2016</p> <p><a href="#">Atlas of Oral Diseases : A Guide for Daily Practice</a> / Isaïc van der Waal.by Van der Waal, Isaïc.2016</p>
<b>d) Scientific periodicals, bulletins, etc.....</b>	<p><a href="http://www.pubmed.com">www.pubmed.com</a></p> <p><a href="http://www.sciencedirect.com">www.sciencedirect.com</a></p> <p><b>Egyptian Knowledge Bank</b></p>

*Course Coordinator: prof. Ahmed Barakat*

*Head of Department: prof. Ahmed Barakat*

*Date: / 3/2016*

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** Oral and Maxillofacial Surgery

### *Course Specification*

1- Basic Information		
<b>Course Title:</b> General anesthesia & local anesthesia	<b>Course Code:</b> 740	<b>Level:</b> Second Part,2 <sup>nd</sup> semester
<b>Master degree in:</b> Oral and Maxillofacial Surgery	Credit Hours: 2 Theoretical:1 Practical:2	

<b>2- Aim of the course:</b>	1) To educate students local and systemic complications of local anesthesia and their management and administration of local anaesthetic drugs in medically compromised patients. 2) To Introduce the student to the basic principles and techniques of general anaesthesia and conscious sedation.
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3- Intended Learning Outcomes of Course (ILO): By the end of the course, post graduate student should be able to:	
<b>a. Knowledge and understanding :</b>	3.a.1. Describe the theories and fundamentals related to general anaesthesia and conscious sedation. 3.a.2. Describe the different local anesthetic drugs for medically compromised patients & medical emergencies 3.a.3. identify the local and systemic complications of local anesthesia
<b>b. Intellectual Skills:</b>	3.b.1. Link different knowledge to correlate the significance of human anatomy with local and general anaesthesia techniques and concepts. 3.b.2. Illustrate the management of Orofacial pain.



<p><b>c. Professional and Practical Skills:</b></p>	<p>3.c.1. Master basic and modern professional skills in management of different complications of local and general anesthesia.</p> <p>3.c.2. Prepare the armentarium and the treatment environment for general anesthesia and conscious sedation.</p>
<p><b>d. General and transferable skills</b></p>	<p>3.d.1. Use information technology to serve professional practice.</p> <p>3.d.2. Self-assess and identify personal learning needs.</p>

<p><b>4- Course Contents:</b></p>	<p>1.G.A and conscious sedation.</p> <p>2. L.A actions and complications</p> <p>3. L.A in medically compromised patients &amp; medical emergencies,</p> <p>4, Drugs interactions.</p> <p>5, Diagnosis &amp; management of Orofacial pain.</p>
<p><b>5- Teaching and Learning Methods</b></p>	<p>Interactive Lectures</p> <p>Seminars</p> <p>Researches</p> <p>Clinical training (demonstration, skill practice, chair-side supervision)</p>
<p><b>6- Teaching and Learning Methods for special needs students</b></p>	<p>Individual learning</p>
<p><b>7- Student Assessment</b></p>	
<p><b>a) Assessment Methods</b></p>	<p>written ,oral , and practical exams</p>
<p><b>b) Assessment Schedule</b></p>	<p>Final written ,oral , and practical exams at the end of the semester</p>
<p><b>c) Weighting of Assessment</b></p>	<p>Final written 60</p> <p>Final practical 20</p> <p>Final oral 20</p>

<b>8- List of References</b>	
<b>a) Course Notes</b>	No
<b>b) Essential Books (Text Books)</b>	<b>Handbook of Local Anesthesia</b> By Stanley F. Malamed. Mosby, 6 <sup>th</sup> edition 2013
<b>c) Recommended Books</b>	<ul style="list-style-type: none"> <li>• <b>Oral Sedation for Dental Procedures in Children</b> Editors: <b>Wilson</b>, Stephen (Ed.)</li> <li>• <b>Local Anaesthesia in Dentistry</b> Editors: <b>Baart</b>, Jacques A., <b>Brand</b>, Henk S. (Eds.)</li> </ul>
<b>d) Scientific periodicals, bulletins, etc.....</b>	<p><a href="http://www.pubmed.com">www.pubmed.com</a></p> <p><a href="http://www.sciencedirect.com">www.sciencedirect.com</a></p> <p><b>Egyptian Knowledge Bank</b></p>

*Course Coordinator: Dr. Aktham Adel*

*Head of Department: prof. Ahmed Barakat*

*Date: / 3 /2016*

**University:** Future University in Egypt.

**Faculty:** Faculty of Oral and Dental Medicine

**Department:** Oral and Maxillofacial Surgery

### *Course Specification*

1- Basic Information	
<b>Course Title:</b> Maxillofacial Surgery	<b>Course Code:</b> 742
<b>Level:</b> Second Part 2 <sup>nd</sup> semester	
<b>Master degree in:</b> Oral and Maxillofacial Surgery	Credit Hours: 4 Theoretical:2 Practical:4
<b>2- Aim of the course:</b>	1.To Enable the postgraduate student to have intellectual and clinical skills in mangement of cystic , neoplastic lesions and complicated traumatized patients. 2. To Familiarize the student with the procedures most commonly provided by oral and maxillofacial surgeons in orthognathic surgeries
3- Intended Learning Outcomes of Course (ILO): By the end of the course, post graduate student should be able to:	
<b>a. Knowledge and understanding :</b>	3.a.1. discuss scientific developments in the diagnosis and management of cystic and neoplastic lesions. 3.a.2. Describe the surgical management of cysts and tumors involving the oral and maxillofacial region 3.a.3. Identify types of soft and hard tissues grafts.
<b>b. Intellectual Skills:</b>	3.b.1. Analyze and evaluate information and measurement from different diagnostic modalities in oral & maxillofacial surgery for problem solving of cystic and neoplastic lesions. 3.b.2. Link different knowledge to differentiate between pathological lesions of oral cavity. 3.b.3. Relate the advantages and disadvantages of relevant treatment plans with TMJ disorders patients

<b>c. Professional and Practical Skills:</b>	<p>3.c.1. Master basic and modern professional skills in management of hard and soft tissue reconstruction.</p> <p>3.c.2. Distinguish between Recent techniques and technology for management in oral and maxillofacial orthognathic surgery</p> <p>3.c.3. Manage the complicated traumatized patient</p>
<b>d. General and transferable skills</b>	<ol style="list-style-type: none"> <li>1. Communicate effectively.</li> <li>2. Use information technology to serve professional practice.</li> <li>3. Self-assess and identify personal learning needs.</li> <li>4. Consider appropriately patients 'rights, particularly with regard to confidentiality and valid consent, and of patients' obligations.</li> </ol>

<b>4- Course Contents:</b>	<ol style="list-style-type: none"> <li>1. Reconstruction of soft and hard tissues in oral and maxillofacial regions.</li> <li>2. Advanced treatment of TM.J disorders.</li> <li>3. Management of cystic and neoplastic lesions of head and neck.</li> <li>4. Recent management of complicated trauma.</li> <li>5. Recent techniques and technology for management in oral and maxillofacial orthognathic surgery</li> </ol>
<b>5- Teaching and Learning Methods</b>	<p>interactive Lectures</p> <p>Seminars</p> <p>Researches</p> <p>Practical cases</p> <p>Solving problems</p>
<b>6- Teaching and Learning Methods for special needs students</b>	<p>Individual learning</p>
<b>7- Student Assessment</b>	
<b>a) Assessment Methods</b>	<p>written ,oral , and practical exams</p>
<b>b) Assessment Schedule</b>	<p>Final written ,oral , and practical exams at the end of the semester</p>

<b>c) Weighting of Assessment</b>	Final written 120 Final practical 40 Final oral 40
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<b>8- List of References</b>	
<b>a) Course Notes</b>	<b>Contemporary Oral and Maxillofacial Surgery</b> By Peterson, L.J., Ellis, E.L., Hupp, J.R. and Tucker, M.R. 6 <sup>th</sup> edition, 2013
<b>b) Essential Books (Text Books)</b>	<p><a href="#">Cone-beam volumetric imaging in dental, oral and maxillofacial medicine : fundamentals, diagnostics and treatment planning</a> / Jörg Neugebauer, Joachim E. Zoller. 2014</p> <p><a href="#">Advances in oral tissue engineering</a> / Edited by Masaru Murata and In-Woong Um. by Murata, Masaru [editor.]   Um, In-Woong [editor.]. 2014</p> <p><a href="#">Computer-guided applications : for dental implants, bone grafting, and reconstructive surgery</a> / Marco Rinaldi, Scott D. Ganz, Angelo Mottola ; translation from the Italian by Dr. Stefano Lauriola. 2016</p> <p><a href="#">Atlas of Oral Diseases : A Guide for Daily Practice</a> / Isaäc van der Waal. by Van der Waal, Isaäc. 2016</p>
<b>c) Recommended Books</b>	<p><a href="http://www.pubmed.com">www.pubmed.com</a></p> <p><a href="http://www.sciecedirect.com">www.sciecedirect.com</a></p> <p><b>Egyptian Knowledge Bank</b></p>
<b>d) Scientific periodicals, bulletins, etc.....</b>	<b>Contemporary Oral and Maxillofacial Surgery</b> By Peterson, L.J., Ellis, E.L., Hupp, J.R. and Tucker, M.R. 6 <sup>th</sup> edition, 2013

**Course Coordinator:**

**Head of Department:**

**Date: / 3 /2016**