

University / Academy: Future University in Egypt

Faculty / Institute: Oral and Dental Medicine

Department: Orthodontics and Pediatric Dentistry

Program specification

(Academic year **2015/2016**)

A. Basic information:

1. Program Name: **Pedodontics**
2. Nature of the program: **Single**
3. Department responsible for the program: **Orthodontics and Pediatric Dentistry**
4. Departments sharing in the program:
 - **Oral Biology and Oral Pathology Department**
 - **Oral Medicine, Periodontology, Diagnosis and Radiology**
 - **Conservative Dentistry Department**
 - **Supplementary General Science Department**
5. Program coordinator: **Assoc. Prof. Dr. Osama Ebrahim El Shahawy**
6. Internal evaluator: **Assoc. Prof. Samah Mohamed Awad**
7. External evaluator: **prof. Fatma Elshehaby**
8. Date of approval of department: **14/3/2016**
9. Date of faculty council approval of the specification: **21 / 3 /2016 (No 47)**
10. 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 pediatric dentistry should be able to:

- 1.1. Apply the basic methodologies of scientific research within the scope of pediatric dentistry.
- 1.2. Apply the clinical modalities including radiographs and lab investigations and its use in pediatric dentistry.
- 1.3. Integrate fundamentals of basic dental sciences as well as psychological knowledge in different disciplines of pediatric dentistry.
- 1.4. Master the classical and state of the art procedures in managing hereditary, anomalies and syndromes in treating the child dental patient as well as those with special needs.
- 1.5. Demonstrate awareness of current concepts of caries risk assessment, preventive strategies and techniques as well as its reflection on treatment planning in children and adolescents.
- 1.6. Mastering the appropriate range of integrated professional diagnostic and surgical skills in diagnosis and treatment of dental and orofacial injuries for children and adolescents.
- 1.7. Communicate effectively and be able to lead a team in decision making.
- 1.8. Take decisions to handle traumatic and pulp therapy emergencies in the dental practice.
- 1.9. Utilize all available resources and knowledge to get the best output in different fields of dental treatment in children including restorative, pulpal, gingival and periodontal management.
- 1.10. Demonstrate the ability to conduct different types of epidemiological studies and surveys and to evaluate the spread of disease within a certain community, thereby showing awareness of different types of indices used in such studies.
- 1.11. Conduct and reflect the commitment to integrity, creditability and adherence to all the professional rules and show awareness of his role in the development of society and the preservation of the environment .
- 1.12. Improve the quality of life for children, through self developments, excellence and leadership of postgraduates in clinical practice, preventive care and community service.

2. intended learning outcomes of the program:

2/A Knowledge and understanding:

The pediatric dentistry master program graduates should demonstrate knowledge and understanding of:

- A.1. Theories and fundamentals of pediatric dentistry and all related basic biomaterials and pathological sciences.
- A.2. Influence of pediatric dentistry and its impact on the environment and community.
- A.3. Scientific development and recent advances as use of laser in management and treatment of disorders for the child dental patient.
- A.4. Ethical and legal principles of professional practice in pediatric dentistry.
- A.5. Principles and fundamentals of quality practice in behavior management and treatment of the child dental patient.
- A.6. The basics of ethics in scientific research and treatment modalities.

2/B intellectual skills:

The pediatric dentistry master program graduates should be able to:

- B.1. Analyze and evaluate information and measurements from different diagnostic modalities in pediatric dentistry.
- B.2. Handle clinical emergencies and provide palliative treatment for children with the minimal available resources.
- B.3. Integrate personal, medical and dental histories together with clinical and radiographic findings in clinical prevention and treatment of the child patient.
- B.4. Conduct scientific research study and /or write systematic reviews based on a research problem.
- B.5. Assess risk of the child dental patient and apply the determined risk level on different treatment options.
- B.6. Create a plan to enhance efficient performance in diagnosis and treatment of the child dental patient.
- B.7. Take the decisions in dental traumatic and pulp therapy treatment domains.

2/C practical and clinical Skills:

The pediatric dentistry master program graduates should be able to:

C.1. Apply basic and modern skills in preventing and treating different pediatric dental disorders.

C.2. Write referral reports when needed as well as being able to evaluate professional reports.

C.3. Use the diagnostic techniques for proper management and treatment of pediatric dental patient.

2/D General and transferrable Skills:

D.1. Communicate effectively with colleagues, members of the team as well as the child and his caretaker.

D.2. Use diagnostic technology towards serving the professional practice.

D.3. Monitor own performance through audit and feedback to determine the personal educational needs to enable continuous education.

D.4. Employ different source to acquire information and knowledge.

D.5. Formulate basis and parameters of evaluating the performance of team members and medical assistants.

D.6. Work in a team as well as team leading in the different professional contexts.

D.7. Manage time effectively.

D.8. Continues self-learning in both academic and practical fields.

3. Program academic standards:

Academic standards of master degree program of: **Pedodontics**

- Approved in department council on 10/6/2015
- postgraduate affairs: 3/8/2015
- Approved in faculty council no (40) on 10/8/2015

4. References standards:

a. Academic reference standards ARS, master program (March 2009) issued by NAQAAE

b. external reference standards (bench mark): **None**

5. Program Structure and contents:

A. Duration of Program: minimum 2 years.

- 1st part : 2 semesters 15week x 2 : 1 year
- 2nd part: 2 semesters : 1 year
- Thesis: minimum 1 year after completion of 1st part

B. Structure of the Program:

Number of hours / number of units: total **74** theoretical **44** practical and clinical **28**

Compulsory **58** selective **0** elective **4** Thesis: **12**

Basic science courses: **26** credit hour 35.5 %

Social and Human Sciences courses: **4** credit hour 5 %

Specialization courses: **28** credit hour 38 %

Elective Courses **4** credit hour 5 %

Thesis: **12** credit hour 16.5 %

C) Program levels

First part: Passage required 30 Unit distributed as follows:

Compulsory: 30 credit hours Selective: 0 elective: 4 credit hours

Second part: Passing 28 Unit (distributed as follows:

Mandatory: 28 credit hours Selective: 0 elective: 4 credit hours

Thesis: 12 credit hours

Program Courses:

1st part (1st. semester)

A - compulsory:

Course Code	Course Name	credit hour	Number of weekly hours		
			Practical	exercises	Theoretical
601	Oral Pathology	3	2	-	2
603	Oral Histology	3	2	-	2
605	General Anatomy	3	2	-	2
611	Diagnosis and Radiology	2	2	-	1
615	Dental Materials	2	0	-	2
621	Psychology	2	0	-	2

B. Selective: -

C. Elective:

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

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

Course Code	Course Name	credit hour
623	Biochemistry	2
629	Implantology	2
632	Laser applications	2
634	Dental emergency	2

1st part (2nd. semester)

A - compulsory:

Course Code	Course Name	credit hour	Number of weekly hours		
			Practical	exercises	Theoretical
602	Oral Pathology	3	2	-	2
604	Oral Histology	3	2	-	2
606	General Anatomy	3	2	-	2
612	Diagnosis and Radiology	2	2	-	1
616	Dental Materials	2	0	-	2
622	Psychology	2	0	-	2

B. Selective: -

C. Elective: Student chooses 2 Elective courses (4 credit hours) during first or second part.

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

2nd part (1st. semester)

A - compulsory:

Course Code	Course Name	credit hour	Number of weekly hours		
			Practical	exercises	Theoretical
727	Pediatric Dentistry	6	6	-	3
729	Prevention	3	0	-	3
731	Public Health	2	0	-	2
733	Pediatrics	3	0	-	3

B. Selective: -

C. Elective:

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

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

Course Code	Course Name	credit hour
623	Biochemistry	2
629	Implantology	2
632	Laser applications	2
634	Dental emergency	2

2nd part (2nd. semester)

A - compulsory:

Course Code	Course Name	credit hour	Number of weekly hours		
			Practical	exercises	Theoretical
728	Pediatric Dentistry	6	6	-	3
730	Prevention	3	0	-	3
732	Public Health	2	0	-	2
734	Pediatrics	3	0	-	3

B. Selective: -

C. Elective: Student chooses 2 Elective courses (4 credit hours) during first or second part.

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:

١. 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.
٢. أن يؤدي الطالب جميع المتطلبات الدراسية التي يحددها مجلس كل قسم من المقررات الدراسة المقرر دراستها في اللائحة و الا حرم من دخول الامتحان في ذلك المقرر.

٣. يشترط لنجاح الطالب اجتياز جميع الامتحانات المقررة المنصوص عليها في اللائحة حسب كل تخصص طبقا لنظام الساعات المعتمدة.
٤. يشترط لنجاح الطالب في اي مقرر من السنة الدراسية الاولى (الجزء الاول) ان يحصل علي درجة لا تقل عن ٦٠% من النهاية العظمي لمجموع الدرجات في المقرر، و علي الايقل ما يحصل علي في الامتحان التحريري و الشفهي و العملي عن ٦٠% من النهاية العظمي لمجموع الدرجات في المقرر) كل امتحان علي حدة.
٥. 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 الايقل ما يحصل علي في الامتحان التحريري و الشفهي و العملي و الاكلينيكي عن ٦٠% من النهاية العظمي لمجموع الدرجات في المقرر (كل امتحان علي حدة).
٦. يعد الطالب راسبا اذا تغيب عن دخول اي امتحان او جزء منه بدون عذر قهري يقبله مجلس الكلية تبعا لما هو محدد بقرارات الجامعة.
٧. يكون الطالب الراسب في احد جزئي درجة الماجستير (الاول و الثاني) فيما رسب فيه من مقررات فقط.
٨. 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"> Knowledge and understanding intellectual skills 	Written examination	1
<ul style="list-style-type: none"> Knowledge and understanding intellectual skills General and transferrable Skills 	Oral examination	2
<ul style="list-style-type: none"> Knowledge and understanding intellectual skills practical / clinical Skills General and transferrable Skills 	Practical / clinical examination	3
<ul style="list-style-type: none"> Knowledge and understanding intellectual skills practical / clinical Skills General and transferrable Skills 	Thesis	4

10- Evaluation of the program:

Evaluator	Tools	Sample
Internal evaluator (s) مقيّم داخلي	<ul style="list-style-type: none">• Focus group discussion• Meetings• Questionnaire	Reports1-2
External Evaluator (s) مقيّم خارجي	<ul style="list-style-type: none">• Reviewing according to external evaluator• Checklist reportof NAQAA.	1-2 Reports
Senior student (s) طلاب السنة النهائية	مقابلات , استبيان	جميع الطلبة
Alumni الخريجون	مقابلات , استبيان	عينة لا تقل عن ٥٠% من خريجي آخر ٣ دفعات
Stakeholder (s) أصحاب العمل	مقابلات , استبيان	عينة ممثلة لجميع جهات العمل
Others طرق أخرى	none	

11- Teaching and learning strategies:

- a. Active learning
- b. Outcome- based learning
- c. Problem-based learning
- d. Self learning

Program coordinator: Assoc. Prof. Dr. Osama Ebrahim El Shahawy

Head of department: Assoc. Prof. Dr. Yehia Mostaf

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 standers (ARS) for master degree programof pediatric dentistry

1. The attributes of master degree program of pediatric dentistry graduates:
 - 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 analytical modalities and its use in pediatric dentistry.
 - 1.3. Apply specialized knowledge and integrate it with relevant knowledge in different disciplines of pediatric dentistry.
 - 1.4. Mastering the classical and state of the art procedures in managing disorders in treating the child dental patient.
 - 1.5. Demonstrate awareness of current concepts of risk assessment and its reflection on treatment planning.
 - 1.6. Mastering the appropriate range of integrated professional skills in management of dental traumatic injuries for children and adolescents.
 - 1.7. Communicate effectively and be able to lead a team.
 - 1.8. Take decisions to handle emergencies in the dental practice.
 - 1.9. Utilize and maintain all available resources and knowledge to get the best output in different fields of treatment.
 - 1.10. Show awareness of his role in the development of society and the preservation of the environment in light of global and regional changes.
 - 1.11. Conduct and reflect the commitment to integrity, creditability and adherence to the all the professional rules.
 - 1.12. Utilize all available resources for self development as well as continuing education in both practical and academic fields.

2. General reference standards

A. Knowledge and understanding

The pediatric dentistry master program graduates should demonstrate knowledge and understanding of:

- A.1. Theories and fundamentals of pediatric dentistry and all related basic sciences.
- A.2. Influence of pediatric dentistry and its impact on the environment and community.
- A.3. Scientific development and recent advances in management and treatment of disorders for the child dental patient.
- A.4. Ethical and legal principles of professional practice in pediatric dentistry.
- A.5. Principles and fundamentals of quality practice in behavior management and treatment of the child dental patient.

A.6. The basics of ethics in scientific research.

B. Intellectual skills

By the end of the program the Pediatric dentistry master degree graduate should be capable of:

B.1. Analysis and evaluation of information and measurements from different diagnostic modalities in pediatric dentistry.

B.2. The ability to handle emergencies and provide palliative treatment for children with the minimal available resources.

B.3. Integrate personal, medical and dental histories together with clinical and radiographic findings in clinical management of the child patient.

B.4. Conduct scientific research study and /or write systematic reviews based on a research problem.

B.5. Risk assessment of the child dental patient and apply the determined risk level on different treatment options.

B.6. Create a plan to enhance efficient performance in diagnosis and treatment of the child dental patient.

B.7. Take the professional decisions in various treatment domains.

C. Professional and practical skills

By the end of the program the Pediatric dentistry master degree graduate should be capable of:

C.1. Mastering basic and modern professional skills in management of different disorders.

C.2. Write and evaluate professional reports.

C.3. Evaluate and the techniques and tools used in management and treatment of pediatric dental patient.

D. General and transferrable skills

By the end of the program the Pediatric dentistry master degree graduate should be capable of:

D.1. Communicate effectively with colleagues, members of the team as well as the child and his caretaker.

D.2. Use information technology towards serving the professional practice.

D.3. Monitor own performance through audit and feedback to determine the personal educational needs to enable continuous education.

D.4. Employ different sources to acquire information and knowledge.

D.5. Formulate basis and parameters of evaluating the performance of team members and medical assistants.

D.6. Work in a team as well as team leading in the different professional contexts.

D.7. Manage time effectively.

D.8. Continues self-learning in both academic and practical fields.

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 و إيجاد 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:

١.٢ المعرفة والفهم :

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

- ١,١,٢ النظرياتوالأساسيات 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 :

بانتهاج 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 :

بانتهاج دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:

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

٤.٢ المهارات العامة والمنتقلة :

بانتهاج دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:

- ١,٤,٢ التواصل الفعال بأنواعه المختلفة.
- ٢,٤,٢ استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية.
- ٣,٤,٢ التقييم الذاتي وتحديد احتياجاته التعليمية الشخصية.

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.

- مواصفات الخريج:

مواصفات الخريج بالمعايير الأكاديمية للبرنامج Graduate attributes of the program	مواصفات الخريج بالمعايير القياسية العامة لبرامج الدراسات العليا (درجة الماجستير) ARS الهيئة
1.1 Mastering the application of the basics and methodologies of scientific research and the use of its various tools.	١,١ إجابة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام أدواته المختلفة.
1.2 Application of the diagnostic modalities and its use in pediatric dentistry.	٢,١ تطبيق المنهج التحليلي واستخدامه في مجال التخصص.
1.3 Apply specialized knowledge and integrate it with relevant knowledge in different disciplines of pediatric dentistry.	٣,١ تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة في ممارسته المهنية.
1.5 Demonstrate awareness of current concepts of risk assessment and its reflection on treatment planning.	٤,١ إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص.
1.4 Demonstrate awareness of current concepts of risk assessment and its reflection on treatment planning.	٥,١ تحديد المشكلات المهنية وإيجاد حلول لها.
1.6 Mastering the appropriate range of integrated professional skills in management of dental traumatic injuries for children and adolescents.	٦,١ إتقان نطاق مناسب من المهارات المهنية المتخصصة، واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية.
1.7 Communicate effectively and be able to lead a team.	٧,١ التواصل بفاعلية والقدرة على قيادة فرق العمل.
1.8 Take decisions to handle emergencies in the dental practice.	٨,١ اتخاذ القرار في سياقات مهنية مختلفة.
1.9 Utilize and maintain all available resources and knowledge to get the best output in different fields of treatment.	٩,١ توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها.
1.10 Show awareness of his role in the development of society and the preservation of the environment in light of global and regional changes.	١٠,١ إظهار الوعي بدوره في تنمية المجتمع والحفاظ على البيئة في ضوء المتغيرات العالمية والإقليمية.

1.11 Conduct and reflect the commitment to integrity, creditability and adherence to the all the professional rules.	١١,١ التصرف بما يعكس الالتزام بالنزاهة والمصداقية والالتزام بقواعد المهنة.
1.12 Utilize all available resources for self development and continuing education in both practical and academic fields.	١٢,١ تنمية ذاته أكاديميا ومهنيا وقادرا علي التعلم المستمر.

أ - المعرفة والفهم:

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الماجستير)
A.1 Theories and fundamentals of pediatric dentistry and all related basic sciences.	١,١,٢ النظريات والأساسيات المتعلقة بمجال التعلم وكذا في المجالات ذات العلاقة.
A.2 Influence of pediatric dentistry and its impact on the environment and community.	٢,١,٢ التأثير المتبادل بين الممارسة المهنية وانعكاسها علي البيئة.
A.3 Scientific development and recent advances in management and treatment of disorders for the child dental patient.	٣,١,٢ التطورات العلمية في مجال التخصص.
A.4 Ethical and legal principles of professional practice in pediatric dentistry.	٤,١,٢ المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص.
A.5 Principles and fundamentals of quality practice in behavior management and treatment of the child dental patient.	٥,١,٢ مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص.
A.6 The basics of ethics in scientific research.	٦,١,٢ أساسيات وأخلاقيات البحث العلمي.

ب - المهارات الذهنية :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الماجستير)
B.1 Analysis and evaluation of information and measurements from different diagnostic modalities in pediatric dentistry.	١,٢,٢ تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل.
B.2 The ability to handle emergencies and provide palliative treatment for children with the minimal available resources.	٢,٢,٢ حل المشاكل المتخصصة مع عدم توافر بعض المعطيات.
B.3 Integrate personal, medical and dental	٣,٢,٢ الربط بين المعارف المختلفة لحل المشاكل

histories together with clinical and radiographic findings in clinical management of the child patient.	المهنية.
B.4 Conduct scientific research study and /or write systematic reviews based on a research problem.	٤,٢,٢ إجراء دراسة بحثية و/أو كتابة دراسة علمية منهجية حول مشكلة بحثية.
B.5 Risk assessment of the child dental patient and apply the determined risk level on different treatment options.	٥,٢,٢ تقييم المخاطر في الممارسات المهنية في مجال التخصص.
B.6 Create a plan to enhance efficient performance in diagnosis and treatment of the child dental patient.	٦,٢,٢ التخطيط لتطوير الأداء في مجال التخصص.
B.7 Take the professional decisions in various treatment domains.	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)
C.1 Mastering basic and modern professional skills in management of different disorders.	١,٣,٢ إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص.
C.2 Write and evaluate professional reports.	٢,٣,٢ كتابة و تقييم التقارير المهنية.
C.3 Evaluate and the techniques and tools used in management and treatment of pediatric dental patient.	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)
D.1 Communicate effectively with colleagues, members of the team as well as the child and his caretaker.	١,٤,٢ التواصل الفعال بأنواعه المختلفة.
D.2 Use information technology towards serving the professional practice.	٢,٤,٢ استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية.
D.3 Monitor own performance through audit and feedback to determine the personal educational needs to enable continuous	٣,٤,٢ التقييم الذاتي وتحديد احتياجاته التعليمية الشخصية.

education.	
D.4 Employ different sources to acquire information and knowledge	٤, ٤, ٢ استخدام المصادر المختلفة للحصول على المعلومات والمعارف.
D.5 Formulate basis and parameters of evaluating the performance of team members and medical assistants.	٥, ٤, ٢ وضع قواعد ومؤشرات تقييم أداء الآخرين.
D.6 Work in a team as well as team leading in the different professional contexts.	٦, ٤, ٢ العمل في فريق، وقيادة فرق في سياقات مهنية مختلفة.
D.7 Manage time effectively.	٧, ٤, ٢ إدارة الوقت بكفاءة.
D.8 Continues self-learning in both academic and practical fields.	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 Application of the basics and methodologies of scientific research and the use of its various tools.	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 analytical modalities through radiographs and labs and its use in pediatric dentistry.	1.2 Application of the analytical modalities and its use in pediatric dentistry.
1.3 Apply specialized knowledge and integrate it with relevant pathological and psychological knowledge in different disciplines of pediatric dentistry.	1.3 Apply specialized knowledge and integrate it with relevant knowledge in different disciplines of pediatric dentistry.
1.4 Mastering the classical and state of the art procedures in managing hereditary, anomalies and syndromes in treating the child dental patient.	1.4 Mastering the classical and state of the art procedures in managing disorders in treating the child dental patient.
1.5 Demonstrate awareness of current concepts of caries risk assessment and its reflection on treatment planning.	1.5 Demonstrate awareness of current concepts of risk assessment and its reflection on treatment planning.
1.6 Mastering the appropriate range of integrated professional diagnostic and surgical skills in diagnosis and treatment of dental traumatic injuries for children and adolescents.	1.6 Mastering the appropriate range of integrated professional skills in management of dental traumatic injuries for children and adolescents.
1.7 Communicate effectively and be able to lead a team in decision making.	1.7 Communicate effectively and be able to lead a team.
1.8 Take decisions to handle traumatic and pulp therapy emergencies in the dental practice.	1.8 Take decisions to handle emergencies in the dental practice.
1.9 Utilize and maintain all available resources and knowledge to get the best output in different fields of treatment.	1.9 Utilize and maintain all available resources and knowledge to get the best output in different fields of treatment.

1.10 Show awareness of his role in the development of society and the preservation of the environment in light of global and regional changes.	1.10 Show awareness of his role in the development of society and the preservation of the environment in light of global and regional changes.
1.11 Conduct and reflect the commitment to integrity, creditability and adherence to the all the professional rules.	1.11 Conduct and reflect the commitment to integrity, creditability and adherence to the all the professional rules.
1.12 Improve the quality of life for children, through self developments, excellence and leadership of postgraduates in clinical practice, preventive care and community service.	1.12 Utilize all available resources for self development and continuing education in both practical and academic fields.

نواتج تعلم البرنامج Knowledge & understanding										Knowledge & understanding المعايير الأكاديمية البرنامج ARS
المعرفة و الفهم										
2.a.10	2.a.9	2.a.8	2.a.7	2.a.6	2.a.5	2.a.4	2.a.3	2.a.2.	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.b.2.	2.b.3.	2.b.4.	2.b.5.	2.b.6.	2.b.7.	2.b.8.	
								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.c.1.	2.c.2.	2.c.3.	2.c.4.	2.c.5.	2.c.6.	2.c.7.		
								2.3.1.
							*	2.3.2.
							*	2.2.3.

ملحق ٥ : مصفوفة اهداف ونواتج تعلم البرنامج

نواتج تعلم البرنامج Knowledge & understanding										Program aims
المعرفة و الفهم										
	2.a.10	2.a.9	2.a.8	2.a.7	2.a.6	2.a.5	2.a.4	2.a.3	2.a.2.	2.a.1.
					*					1.1 Application of the basics and methodologies of scientific research and the use of its various tools.
								*		1.2 Application of the analytical modalities through radiographs and labs and its use in pediatric dentistry.
									*	1.3 Apply specialized knowledge and integrate it with relevant pathological and psychological knowledge in different disciplines of pediatric dentistry.
									*	1.4 Mastering the classical and state of the art procedures in managing hereditary, anomalies and syndromes in treating the child dental patient.
										1.5 Demonstrate awareness of current concepts of caries risk assessment and its reflection on treatment planning.

																	1.6 Mastering the appropriate range of integrated professional diagnostic and surgical skills in diagnosis and treatment of dental traumatic injuries for children and adolescents. *
																	1.7 Communicate effectively and be able to lead a team in decision making.
																	1.8 Take decisions to handle traumatic and pulp therapy emergencies in the dental practice.
																	1.9 Utilize and maintain all available resources and knowledge to get the best output in different fields of treatment.
									*								1.10 Show awareness of his role in the development of society and the preservation of the environment in light of global and regional changes.
																	1.11 Conduct and reflect the commitment to integrity, creditability and adherence to the all the professional rules.
								*		*							1.12 Improve the quality of life for children, through self developments,

												excellence and leadership of postgraduates in clinical practice, preventive care and community service.

نواتج تعلم البرنامج												Program aims
Intellectual skills												
2.b.1.	2.b.2.	2.b.3.	2.b.4.	2.b.5.	2.b.6.	2.b.7.	2.b.8.					
			*									1.1 Application of the basics and methodologies of scientific research and the use of its various tools.
					*						*	1.2 Application of the analytical modalities through radiographs and labs and its use in pediatric dentistry.
					*	*					*	1.3 Apply specialized knowledge and integrate it with relevant pathological and psychological knowledge in different disciplines of pediatric dentistry.
					*						*	1.4 Mastering the classical and state of the art procedures in managing hereditary, anomalies and syndromes in treating the child dental patient.
				*								1.5 Demonstrate awareness of current concepts of caries risk assessment and its reflection on treatment planning.

نواتج تعلم البرنامج							Program aims	
Practical/Professional skills								
							2.c.1.	
								1.1 Application of the basics and methodologies of scientific research and the use of its various tools.
						*	*	1.2 Application of the analytical modalities through radiographs and labs and its use in pediatric dentistry.
						*	*	1.3 Apply specialized knowledge and integrate it with relevant pathological and psychological knowledge in different disciplines of pediatric dentistry.
						*	*	1.4 Mastering the classical and state of the art procedures in managing hereditary anomalies and syndromes in treating the child dental patient.
						*	*	1.5 Demonstrate awareness of current concepts of caries risk assessment and its reflection on treatment planning.
						*		1.6 Mastering the appropriate range of integrated professional diagnostic and surgical skills in diagnosis and treatment of dental traumatic injuries for children and adolescents.
							*	1.7 Communicate effectively and be able to lead a team in decision making.

								*			1.8 Take decisions to handle traumatic and pulp therapy emergencies in the dental practice
								*		*	1.9 Utilize and maintain all available resources and knowledge to get the best output in different fields of treatment.
										*	1.10 Show awareness of his role in the development of society and the preservation of the environment in light of global and regional changes.
										*	1.11 Conduct and reflect the commitment to integrity, creditability and adherence to the all the professional rules.
								*		*	1.12 Improve the quality of life for children, through self development, excellence and leadership of postgraduates in clinical practice, preventive care and community service.
نواتج تعلم البرنامج											
General and transferable skill											
										2.d.1.	
										2.d.2.	
										2.d.3.	
										2.d.4.	
										2.d.5.	
										2.d.6.	
										2.d.7.	
										2.d.8.	
											1.1 Application of the basics and methodologies of scientific research and the use of its various tools.
								*		*	1.2 Application of the analytical modalities through radiographs and labs and its use in pediatric dentistry.

						*		*		1.3 Apply specialized knowledge and integrate it with relevant pathological and psychological knowledge in different disciplines of pediatric dentistry.
		*								1.4 Mastering the classical and state of the art procedures in managing hereditary anomalies and syndromes in treating the child dental patient.
								*		1.5 Demonstrate awareness of current concepts of caries risk assessment and its reflection on treatment planning.
		*						*		1.6 Mastering the appropriate range of integrated professional diagnostic and surgical skills in diagnosis and treatment of dental traumatic injuries for children and adolescents.
			*	*	*		*		*	1.7 Communicate effectively and be able to lead a team in decision making.
			*					*	*	1.8 Take decisions to handle traumatic and pulp therapy emergencies in the dental practice
				*		*		*	*	1.9 Utilize and maintain all available resources and knowledge to get the best output in different fields of treatment.
		*	*				*		*	1.10 Show awareness of his role in the development of society and the preservation of the environment in light of global and regional changes.
		*	*	*			*		*	1.11 Conduct and reflect the commitment to integrity, creditability and adherence to the all the professional rules.
		*	*	*	*		*		*	1.12 Improve the quality of life

Program-Courses ILOs

ملحق ٦: مصفوفة المقررات مع البرنامج

Matrix

المعارف Knowledge & Understanding										ILOs	
a.10	a.9	2.a.8	2.a.7	2.a.6	2.a.5	2.a.4	2.a.3	2.a.2	2.a.1	All Courses & codes	
							*		*	601	Oral Pathology
									*	603	Oral Histology
									*	605	General Anatomy
								*	*	611	Diagnosis and Radiology
									*	615	Dental Materials
					*			*	*	621	Psychology
							*		*	602	Oral Pathology
									*	604	Oral Histology
									*	606	General Anatomy
								*	*	612	Diagnosis and Radiology
									*	616	Dental Materials
					*			*	*	622	Psychology
				*	*	*	*	*	*	727	Pediatric Dentistry
						*		*	*	729	Prevention
				*		*		*	*	731	Public Health
					*			*	*	733	Pediatrics
				*	*	*	*	*	*	728	Pediatric Dentistry
						*		*	*	730	Prevention
				*		*		*	*	732	Public Health
					*			*	*	734	Pediatrics

مهارات ذهنية Intellectual Skills								ILOs	
2.b.8.	2.b.	2.b.6	2.b.5	2.b.4	2.b.3	2.b.2	2.b.	All Courses & codes	
		*			*		*	601	Oral Pathology
							*	603	Oral Histology
							*	605	General Anatomy
					*		*	611	Diagnosis and Radiology
							*	615	Dental Materials
		*						621	Psychology
		*			*		*	602	Oral Pathology
							*	604	Oral Histology
							*	606	General Anatomy
					*		*	612	Diagnosis and Radiology
							*	616	Dental Materials
		*						622	Psychology
	*	*	*		*	*	*	727	Pediatric Dentistry
			*		*		*	729	Prevention
				*			*	731	Public Health
			*		*			733	Pediatrics
	*	*	*		*	*	*	728	Pediatric Dentistry
			*		*		*	730	Prevention
		*		*			*	732	Public Health
			*		*			734	Pediatrics

مهارات عملية و مهنية Practical & Clinical Skills								ILOs	
	2.c.7.	2.c.6	2.c.5	2.c.4	2.c.3	2.c.2	2.c.1	All Courses & codes	
								601	Oral Pathology
								603	Oral Histology
								605	General Anatomy
					*		*	611	Diagnosis and Radiology
								615	Dental Materials
							*	621	Psychology
								602	Oral Pathology

								604	Oral Histology
								606	General Anatomy
					*		*	612	Diagnosis and Radiology
								616	Dental Materials
							*	622	Psychology
					*	*	*	727	Pediatric Dentistry
					*	*	*	729	Prevention
						*		731	Public Health
							*	733	Pediatrics
					*	*	*	728	Pediatric Dentistry
					*	*	*	730	Prevention
						*		732	Public Health
							*	734	Pediatrics

مهارات عامة General and transferable								ILOs	
2.d.8.	2.d.7.	2.d.6	2.d.5	2.d.4	2.d.3	2.d.2	2.d.1	All Courses & codes	
								601	Oral Pathology
								603	Oral Histology
								605	General Anatomy
				*		*	*	611	Diagnosis and Radiology
								615	Dental Materials
								621	Psychology
								602	Oral Pathology
								604	Oral Histology
								606	General Anatomy
				*		*	*	612	Diagnosis and Radiology
								616	Dental Materials
								622	Psychology
*	*	*		*	*	*	*	727	Pediatric Dentistry
*		*		*			*	729	Prevention
		*	*	*	*		*	731	Public Health

							*	733	Pediatrics
*	*	*		*	*	*	*	728	Pediatric Dentistry
*		*		*			*	730	Prevention
		*	*	*	*		*	732	Public Health
							*	734	Pediatrics

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

2- Aim of the course:	<ol style="list-style-type: none"> 1. To explain all structural, morphological and numerical alterations affecting hard dental tissues. 2. To understand the biological process of dental caries and the role of bacteria, CHO and saliva. 3. To classify different types of pulp inflammation.
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"> a.1 Discuss basic oral pathological terminology that may be encountered by all specialists in the dental practice. a.2 Classify developmental disturbances affecting the shape, structure and number of teeth. a.3 Explain the biological process of dental caries and the role of bacteria, CHO and saliva. a.4 Categorize types of pulp diseases. a.5 Identify the clinical signs & symptoms of pulp inflammation
b) Intellectual Skills:	<ol style="list-style-type: none"> b1- Differentiate between the developmental disturbances affecting shape, structure and number of teeth. b2- Connect between factors affecting dental caries (bacteria, CHO and saliva) and caries progression. 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.

c) Professional and Practical Skills:	c1- Rank the structural and morphological defects affecting teeth. c2- Evaluate dental caries and its sequelae c3- Prioritize types of pulpitis based on clinical signs and symptoms and plan the treatment of each.
d) General and transferable skills	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. d3- Apply the information technology as a means of communication for data collection and analysis and for life – long learning . d4- Identify the socioeconomic , cultural , geographical & occupational factors that may influence etiology of oral pathological conditions and the impact of disease on the community

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

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

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

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

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

7- Student Assessment											
a) Assessment Methods	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) Assessment Schedule	Final term										
c) Weighting of Assessment	<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										

8- List of References	
a) Course Notes	*Department handouts
b) Essential Books (Text Books)	Mary Bath-Balogh, Margaret J. Fehrenbach, Dental Embryology Histology and anatomy. Ten Cate's Oral Histology Development, Structure and Function.
c) Recommended Books	-----
d) Scientific periodicals, bulletins, etc.....	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		
Course Title: Anatomy of head	Course Code: 605	Level: Part I, First semester
Master degree in: All specialties except public health	Credit Hours: Theoretical: 2 Practical: 1	
2- Aim of the course:	<ul style="list-style-type: none"> • To apply anatomical facts while examining the living subject to reach the proper diagnosis. • To identify the different surface markings of head with determining the position of muscles and their actions and the course of nerves and vessels. • To interpret the normal anatomical structures of head on radiographs of different regions of head. • To get familiar with normal patterns of paranasal sinuses of the widely used radiographs and CT of sinuses. • To provide appropriate ethical and professional education necessary for dealing with cadavers. • To correlate anatomical facts with its clinical application. 	
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"> 1- Discuss the basic principles of the structure of different muscles, nerves, vessels, and glands of head. 2- Describe the surface landmarks of the underlying bony features of skull and mandible 3- Point out the basic features of muscles, nerves, vessels and glands of the head. 4- Outline major clinical applications in the core syllabus of anatomical facts. 	

<i>b. Intellectual Skills:</i>	<ul style="list-style-type: none"> a. Correlate anatomy of different parts of head with the surface markings in determining the position or course of internal structures of the head. b. Discuss the clinical significance of muscle actions and results of injury of nerves and vessels of the head.
<i>c. Professional and Practical Skills:</i>	<ul style="list-style-type: none"> 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 and C.T images.
<i>d. General and transferable skills</i>	<ul style="list-style-type: none"> 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- Maintain emotional stability in all unusual stressful situations.

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>5- Teaching and Learning Methods</p>	<ol style="list-style-type: none"> 1. Didactic Lectures: for acquisition of course knowledge, one two-hour lecture per week. 2. Practical classes: including practical demonstration on dissected specimen and radiological films in the dissecting room, one two-hour session per week. 3. Tutorial classes: 2 hours weekly before dissecting a major region and a brief discussion by the end of each practical lesson. 4. Self-Assessment: As appropriate, self-assessment questions in the form of short essay and/or MCQs.
<p>6- Teaching and Learning Methods for special needs students</p>	<p>----</p>
<p>7- Student Assessment</p>	
<p>a) Assessment Methods</p>	<ol style="list-style-type: none"> 1. Written examination: (2) hours Assessment of Knowledge and understanding in the form of essay, MCQ and fill in the blanks questions. 2. Oral examination: (10-15) minutes Assessment of understanding of pre-identified knowledge. 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. 4. Logbook Assessment of practical activities.
<p>b) Assessment Schedule</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>c) Weighting of Assessment</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>

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

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

1- Basic Information		
Course Title: oral radiology	Course Code: ٦١١	Level: 1 st year master degree
Master degree in:	Credit Hours: 3/ Theoretical: 2/Practical: 2	
2- Aim of the course:	<ol style="list-style-type: none">1. To provide the students with information related to radiological sciences including radiation physics, image production, and possible errors2. To enable the students to understand and use the dental radiography equipment such as machine, different types of image receptors and processing methods3. To train students to clinical imaging sciences including conventional intra oral, digital radiography, head and neck imaging, panoramic imaging	

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">1- explain radiation physics, including X-rays production, different components of X-ray machine and the various properties of X-rays2- Discuss how images are produced and identify different image characteristics as density, contrast, sharpness and resolution. Illustrate all factors affecting these characteristics.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.4- Explain the principles of all the intra oral radiographic techniques5- Describe how images are produced by processing and describe different processing techniques and chemicals.6- Identify the digital radiography systems and their advantages and uses.7- Explain the principles of extra-oral radiographic techniques and understand their indications.8- Identify different radiographic pitfalls, their causes and method of overcome.
b. Intellectual Skills:	<ol style="list-style-type: none">1- Make decisions regarding proper radiographic prescription.2- Formulate complete radiographic report for intraoral CMS, panoramic and extra oral radiographs.
c. Professional and Practical Skills:	<ol style="list-style-type: none">1- Apply their knowledge and skills in radiographic techniques and processing to acquire excellent diagnostic quality radiographs2- Complete full mouth periapical, bitewing, and occlusal survey images (CMS) for adults and children.

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

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

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: conservative dentistry

Course Specification

1- Basic Information		
Course Name: Dental Materials	Course Code: 615	Level: 1 st part, 1 st term
Master degree in: Dental Materials Operative dentistry Endodontics Fixed Prosthodontics Removable Prosthodontics Pedodontics Orthodontics	Credit Hours:2 Contact Hours: 3 Theoretical:1 Practical:2	
2- Aim of the course:	<ul style="list-style-type: none">• To present the basic properties of dental materials as they are related to clinical manipulation by the dentist.• To bridge the gap between the knowledge obtained in the basic course in materials science, chemistry, and physics and the dental operator.• To analyze the benefits and limitations of dental materials.• To make rational decisions on the selection of dental materials and use in a clinical practice.	

3- Intended Learning Outcomes of Course (ILO) :

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

a) Knowledge and understanding

:

- a1- Identify the change of state, the interatomic bonds and the crystalline and non crystalline structure.
- a2- Define the different physical properties.
- a3- Define the different mechanical properties.
- a4- Specify the different testing methodology for the different properties.
- a5- Discuss the biocompatibility of dental materials
- a6- Define adhesion and cohesion and the factors affecting them.
- a7- Explain enamel and dentin bonding mechanisms.
- a8- Classify polymers and their structure.
- a9- Explain the polymerization mechanisms.
- a10- Define copolymerization, cross linking and plasticizers.
- a11- Outline the physical properties of polymers.
- a12- List the applications of polymers in dentistry.
- a13- Describe metals and alloys.
- a14- Explain solidification, and microstructure of metals
- a15- Distinguish wrought metals.
- a16- Define coring and homogenization
- a17- State the different methods of altering mechanical properties of alloys.
- a18- List the different solid state reactions occurring in alloys.
- a19- Define tarnish and corrosion, state the different types.
- a20- Explain the electrochemical corrosion, identify the different types and its application in dentistry.
- a21- Discuss protection against corrosion.

b) Intellectual Skills:

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

c) Professional and Practical Skills:	c1- Categorize the different materials according to their microstructure. c2- Determine the use of different materials consistent with their physical, mechanical, biological, and chemical properties. c3-Choose the proper testing machine and their use. c4- Find out the behavior of different materials during service in oral cavity.
d) General and transferable skills	d1- Communicate effectively with colleagues, staff members and helping personnel d2- Demonstrate appropriate professional attitude and behavior in different situations
4- Course Contents:	1- Structure of matter. 2- Physical properties 3- Adhesion 4- Mechanical properties 5- Polymers 6- Metallurgy 7- Corrosion

Weeks	Topics	
	Lecture	Lab
1 st week	Structure of Matter	Structure of Matter
2 nd week	Mechanical properties.	Mechanical Properties
3 rd week	Mechanical Properties.	Mechanical Properties.
4 th week	Mechanical Properties	Mechanical Properties
5 th week	Physical Properties	Physical Properties
6 th	Physical Properties	Physical Properties
7 th	Adhesion	Adhesion
8 th	Polymers	Polymers
9 th	Metallurgy	Metallurgy
10 th	Metallurgy	Metallurgy
11 th	Metallurgy	Metallurgy
12 th	Tarnish and Corrosion	Tarnish and Corrosion
5- Teaching and Learning Methods	5-1. Interactive Lectures (including discussions and brain storming. 5-2. Practical and small groups sessions. 5-3. Case study and problem solving 5-4. Demonstrations 5-5. Self study 5-6. Presentations and seminars.	
6- Teaching and Learning Methods for special needs students		

7- Student Assessment			
a) Assessment Methods	7-a-1. Written examination to assess knowledge and understanding. 7-a-2. Oral examination to assess knowledge and understanding. 7-a-3. Practical examination to assess practical skills		
b) Assessment Schedule	Assessment 1: Final written, Practical & oral exams by the end of the course		
c) Weighting of Assessment	All Departments Except Orthodontic Students		Orthodontic Students
	Final term Examination	60%	Final term Examination 60%
	Oral Examination	20%	Oral Examination 40%
	Practical Examination	20%	
	Total	100%	Total 100%
8- List of References			
a) Course Notes	Hand out : available for students from the department		
b) Essential Books (Text Books)	<ul style="list-style-type: none"> • Sakaguchi, RL and Powers JM: Restorative Dental materials edited by RG Craig. 13th edition. • Anusavice, KJ; Shen, C and Rawls HR: Phillips' Science of Dental materials. 12th edition 		
c) Recommended Books			
d) Scientific periodicals, bulletins, etc.....	Periodicals, Web Sites,etc		

Course Coordinator: Prof. Taheya Moussa

Head of Department: prof. Essam Abdelhafez

Date: / 3 /2016

University: Future University in Egypt.

Faculty: Faculty of Oral and Dental Medicine

Department: Orthodontics and Pediatric Dentistry

Course Specification

1- Basic Information		
Course Title: Psychology	Course Code: 621	Level: 1
Master degree in: Dental public Health and community Dentistry	Credit Hours: 2 Theoretical 2 Practical -	

2- Aim of the course to:	Understand effect of psychological behavior of the patients on dental health
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. discuss psychological factors affecting dental health of children
b) Intellectual Skills:	1. Analyze psychological problems of children 2. evaluate psychology of children
c) Professional and Practical Skills:	1. Manage children with different behaviors 2. Conduct scientific research on psychological problems of children
d) General and transferable skills	1. Communicate effectively with children and their relatives 2. Work in a team with other specialties

4- Course Contents:	Effect of psychological behavior of the patients on dental health (part 1)
5- Teaching and Learning Methods	<ol style="list-style-type: none"> 1. Interactive lectures including discussion and brain storming 2. Small groups sessions 3. Case study and problem solving 4. Demonstration 5. Self study 6. seminars and presentation
6- Teaching and Learning Methods for special needs students	-----
7- Student Assessment	
a) Assessment Methods	Written examination to assess knowledge and understanding and intellectual skills
b) Assessment Schedule	At the end of the course
c) Weighting of Assessment	100 % written exam

List of References	
a. Course Notes	Handout of presented seminars Department books
b. Essential Books (Text Books)	BR Hergenhahn et al., An introduction to history of psychology 7 th ed., 2008
c. Recommended Books	
d. Scientific periodicals, bulletins, etc.....	www.pubmed.com . www.sciencedirect.com .

Course Coordinator: Prof. Amany Safwat

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 st part master`s degree
Master degree in: All specialties	<i>Credit Hours: 3 Theoretical:2 Practical:2</i>	

2- Aim of the course:	<ol style="list-style-type: none">1. To demonstrate common pathological diseases affecting the periapical area.2. To highlight the differences between different types of cysts of oral and paraoral region.3. To underline different types of odontogenic tumors.
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3- Intended Learning Outcomes of Course (ILO): By the end of the course, post graduate student should be able to:
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a) Knowledge and understanding :	a1- Describe the process of pulp necrosis and calcification a2-. Discuss different diseases affecting the periapical area a3- describe dental granuloma, dental abscess and alveolar osteitis a4- Identify the clinical signs & symptoms of acute and chronic osteomyelitis a5- Categorize odontogenic cysts a6- Summarize soft tissue cysts a7- Classify odontogenic tumors into epithelial, mesenchymal and mixed.
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b) Intellectual Skills:	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.
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<p>c) Professional and Practical Skills:</p>	<p>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.</p>
<p>d) General and transferable skills</p>	<p>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 socioeconomic , cultural , geographical & occupational factors that may influence etiology of oral pathological conditions and the impact of disease on the community</p>

4- Course Contents:	<ul style="list-style-type: none"> • Pulp necrosis and calcification • Diseases of periapical area • Dental granuloma, abscess and alveolar osteitis • Osteomyelitis (acute and chronic) • Odontogenic cysts • Classification of inflammatory odontogenic cysts • Soft tissue cysts • Odontogenic tumors • Classification of epithelial odontogenic tumors • Mesenchymal and mixed odontogenic tumors
5- Teaching and Learning Methods	<ul style="list-style-type: none"> • Lectures with discussions (interactive lectures), Data show presentation, brain storming, and case study. • Practical sessions. • Microscopic slides: Demonstration of slides using computer projection, Discussion and practice of the skill of identification of microscopic slides.
6- Teaching and Learning Methods for special needs students	<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>
7- Student Assessment	
a) Assessment Methods	<ul style="list-style-type: none"> • written examination to assess knowledge and understanding and assessment of general intellectual skills • Multiple choice questions to assess knowledge and understanding and assessment of general intellectual skills • Oral examination to assess knowledge and understanding (and assessment of practical skills & assessment of general intellectual skills) • Practical examination to assess knowledge and understanding and assessment of practical skills and assessment of general intellectual skills
b) Assessment Schedule	<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>
c) Weighting of Assessment	<p>Final written exam (90 marks of 150) Final practical exam (30 marks of 150) Final oral exam (30 marks of 150)</p>

8- List of References	
a) Course Notes	The lecture notes are available (based on the latest edition of `oral and maxillofacial pathology / Neville)
b) Essential Books (Text Books)	Brad Neville, Doglas d. dam, Carl allen, et al 2015, Oral and Maxillofacial pathology 4 th ed., Sanders.
c) Recommended Books	Colored Atlas of oral pathology
d) Scientific periodicals, bulletins, etc.....	

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

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

7- Student Assessment											
a) Assessment Methods	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) Assessment Schedule	Final term										
c) Weighting of Assessment	<table border="0"> <tr> <td>Final term Examination</td> <td>90</td> </tr> <tr> <td>Oral Examination</td> <td>30</td> </tr> <tr> <td>Practical Examination</td> <td>30</td> </tr> <tr> <td colspan="2"><hr/></td> </tr> <tr> <td>Total</td> <td>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										

8- List of References	
a) Course Notes	*Department handouts
b) Essential Books (Text Books)	<ul style="list-style-type: none"> Mary Bath-Balogh, Margaret J. Fehrenbach, Dental Embryology Histology and anatomy. TenCate's Oral Histology Development, Structure and Function.
c) Recommended Books	----
d) Scientific periodicals, bulletins, etc.....	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		
Course Title: Anatomy of Neck	Course Code: 606	Level: Part I, second semester
Master degree in: -Orthodontics. -Removable Prosthodontics. -Oral and maxillofacial Surgery. -Conservative Dentistry.	<i>Credit Hours: Theoretical: 2 - Practical: 1</i>	
2- Aim of the course:	<ul style="list-style-type: none"> • To apply anatomical facts while examining the living subject to reach the proper diagnosis. • To identify the different surface markings of neck with determining the position of muscles and their actions and the course of nerves and vessels. • To interpret the normal anatomical structures of neck on radiographs of different regions of neck. • To provide appropriate ethical and professional education necessary for dealing with cadavers. • To correlate anatomical facts with its clinical application. 	
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- Discuss the basic principles of the structure of different muscles, nerves, vessels, and glands of neck. 2. Describe the basic features of muscles, nerves, vessels and glands of the neck. 3- Outline major clinical applications in the core syllabus of anatomical facts.	
b. Intellectual Skills:	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.	

c. Professional and Practical Skills:	<ol style="list-style-type: none">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.
d. General and transferable skills	<ol style="list-style-type: none">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.

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>5- Teaching and Learning Methods</p>	<p>1. Didactic Lectures: for acquisition of course knowledge, one two-hour lecture per week.</p> <p>2. Practical classes: including practical demonstration on dissected specimen and radiological films in the dissecting room, one two-hour session per week.</p> <p>3. Tutorial classes: 2 hours weekly before dissecting a major region and a brief discussion by the end of each practical lesson.</p> <p>4. Self-Assessment: As appropriate, self-assessment questions in the form of short essay and/or MCQs.</p>
<p>6- Teaching and Learning Methods for special needs students</p>	<p>-----</p>
<p>7- Student Assessment</p>	
<p>a) Assessment Methods</p>	<p>1. Written examination: (2) hours Assessment of Knowledge and understanding in the form of essay, MCQ and fill in the blanks questions.</p> <p>2. Oral examination: (10-15) minutes Assessment of understanding of pre-identified knowledge.</p> <p>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.</p> <p>4. Logbook Assessment of practical activities.</p>
<p>b) Assessment Schedule</p>	<p>Assessment 1: MCQ Quiz exam</p> <p>Assessment 2: Mid Term Exam (Essay, fill in the blanks, and MCQ)</p> <p>Assessment 3: MCQ Quiz exam</p> <p>Assessment 4: Practical exam</p> <p>Assessment 5: Oral exam</p> <p>Assessment 6: Final written exam</p>
<p>c) Weighting of Assessment</p>	<p>Assessment 1: 2.0 %</p> <p>Assessment 2: 6.0 %</p> <p>Assessment 3: 2.0 %</p> <p>Assessment 4: 10.0 %</p> <p>Assessment 5: 20.0 %</p> <p>Assessment 6: 60.0 %</p>
<p>8- List of References</p>	
<p>a) Course Notes</p>	<p>Available in hard copy</p>

b) Essential Books (Text Books)	Netter's Head and Neck Anatomy for Dentistry.
c) Recommended Books	1-Gray's Anatomy for student 2-Cunningham's Text Book of Anatomy
d) Scientific periodicals, bulletins, etc.....	

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		
Course Title: oral radiology	Course Code: 612	Level: 1 st year master degree
Master degree in:	<i>Credit Hours: 3/ Theoretical: 2/Practical: 2</i>	
2- Aim of the course:	<ol style="list-style-type: none"> 1. To train students to clinical imaging sciences including CT, CBCT, MRI, US, contrast and enhanced imaging 2. To enable the students to interpret normal radiographic anatomy in intra oral and extra oral radiographs, CT and CBCT 3. To identify radiographic manifestation of local and systemic diseases in head and neck region. 	
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"> 1. Identify and list anatomical landmarks related to various intra-oral and extra-oral radiographs. 2. Explain the principles of extra-oral radiographic techniques and understand their indications 3. Discuss the methodological approach and principles of radiographic interpretation and description of lesions. 4. Describe different carious lesions and radiographic methods of their evaluation. 5. describe different periodontal lesions and radiographic methods of their evaluation 	
b. Intellectual Skills:	<ol style="list-style-type: none"> 1. Discuss principles of radiation biology, doses, and methods of protection with special emphasis on th ALARA concept 2. Formulate complete radiographic report for intraoral CMS, panoramic and extra oral radiographs. 3. Formulate a differential diagnosis list of a lesion 	

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

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

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

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

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: conservative dentistry Department

Course Specification

1- Basic Information		
Course name : Dental materials	Course Code: 616	Level: Master degree 1 st part 2 nd term
Master degree in: <ul style="list-style-type: none"> • Dental materials • Operative • Fixed Prosthodontics • Removable Prosthodontics • Orthodontics • Pedodontics • Endodontics 	Credit Hours: 2 credit hours (3 contact hours) Theoretical: 1 Practical: 2	
2- Aim of the course:	<ul style="list-style-type: none"> • To present the basic properties of dental materials as they are related to clinical manipulation by the dentist. • To analyze the benefits and limitations of dental materials. • To make rational decisions on the selection of dental materials and use in a clinical practice. • To discover recent advances in different dental materials and analyze their benefits and limitations. 	

3- Intended Learning Outcomes of Course (ILO) :

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

<p>a) Knowledge and understanding :</p>	<ul style="list-style-type: none"> a1- Identify the chemistry of setting, basic principles and technical considerations of gypsum products and list the different die materials used in dentistry. a2- List the requirements, components and types of investment materials. a3- Identify the purpose, requirements, classifications, and general characteristics of impression materials in regards to indications and limitations. a4- Identify casting procedures and the possible defects and how to overcome these defects. a5- Identify the different types of dental casting alloys, their properties, methods of casting and uses. a6- Identify the different types of wrought base metal alloys, their properties and their uses in dentistry. a7- Describe soldering and welding procedures. a8- Describe the structure, properties and technical considerations of dental amalgam. a9- Identify the types, properties, processing techniques of denture base resins. a10- List the different resilient liners and tissue conditioners for dentures. a11- Identify the different types of direct esthetic restorative materials, their requirements, compositions, properties and clinical applications. a12- Identify the different classes of ceramics, their compositions and method of strengthening with focusing on recent advances in all ceramic materials and their processing techniques. a13- List different types of dental cements and identify their classification, uses and properties. a14- Discover the newly introduced materials and describe a criterion for their selection.
<p>b) Intellectual Skills:</p>	<ul style="list-style-type: none"> b1- Predict the ideal requirements of different materials used in dentistry that are related at most to their specific use. b2- Categorize different materials used in dentistry. b3- Relate the effect of materials' composition to their properties. b4- Predict the best use of materials according to their properties. b5- Analyze the need of materials to modifications.
<p>c) Professional and Practical Skills:</p>	<ul style="list-style-type: none"> c1- differentiate different dental materials and their mode of supply. c2- manipulate the different dental materials Properly. c3- Select the appropriate material suitable for each clinical situation.

<p>d) General and transferable skills</p>	<p>d1- Improve Communication skills effectively through presentation of the seminars. d2- Demonstrate appropriate professional attitude and behavior in different Situations</p>
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<p>4- Course Contents:</p>	<p>1- Model and Die Materials 2- Investment Materials 3- Casting technology 4- Dental Casting Alloys 5- Impression Materials 6- Dental Cements 7- Direct Esthetic Restorative Materials 8- None Metallic Denture Base 9- Dental Ceramics: All ceramic materials and processing techniques 10- Dental Amalgam 11- Wrought Wire Alloys 12- Joining of metals and alloys</p>
<p>5- Teaching and Learning Methods</p>	<p>7. Interactive lectures including discussion and brain storming 8. Small groups sessions 9. Case study and problem solving 10. Demonstration 11. Self study 12. seminars and presentation</p>
<p>6- Teaching and Learning Methods for special needs students</p>	<p>1. Written examination to assess knowledge and understanding. 2. Individual oral examination to assess knowledge and understanding. 3. Practical examination</p>

7- Student Assessment															
a) Assessment Methods	<ul style="list-style-type: none"> • All departments except orthodontics: <ol style="list-style-type: none"> 1. Written examination to assess knowledge and understanding. 2. Oral examination to assess knowledge and understanding. 3. Practical examination • Orthodontic department: <ol style="list-style-type: none"> 1. Written examination to assess knowledge and understanding. 2. Oral examination to assess knowledge and understanding. 														
b) Assessment Schedule	<ol style="list-style-type: none"> 1: Practical exam 2: Final written & oral exam 														
c) Weighting of Assessment	<ul style="list-style-type: none"> • All departments except orthodontics: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding-left: 20px;">Practical Examination</td> <td style="text-align: right;">20 %</td> </tr> <tr> <td style="padding-left: 20px;">Oral Examination</td> <td style="text-align: right;">20 %</td> </tr> <tr> <td style="padding-left: 20px;"><u>Written Examination</u></td> <td style="text-align: right;"><u>60 %</u></td> </tr> <tr> <td style="padding-left: 40px;">Total</td> <td style="text-align: right;">100%</td> </tr> </table> • Orthodontic department: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding-left: 20px;">Oral Examination</td> <td style="text-align: right;">40 %</td> </tr> <tr> <td style="padding-left: 20px;"><u>Written Examination</u></td> <td style="text-align: right;"><u>60 %</u></td> </tr> <tr> <td style="padding-left: 40px;">Total</td> <td style="text-align: right;">100%</td> </tr> </table> 	Practical Examination	20 %	Oral Examination	20 %	<u>Written Examination</u>	<u>60 %</u>	Total	100%	Oral Examination	40 %	<u>Written Examination</u>	<u>60 %</u>	Total	100%
Practical Examination	20 %														
Oral Examination	20 %														
<u>Written Examination</u>	<u>60 %</u>														
Total	100%														
Oral Examination	40 %														
<u>Written Examination</u>	<u>60 %</u>														
Total	100%														
8- List of References															
a) Course Notes	<ul style="list-style-type: none"> • Handout of presented seminars 														
b) Essential Books (Text Books)	<ul style="list-style-type: none"> • Anusavice KJ, Shen C, Rawls HR; Phillips' Science of Dental materials. 12th edition, 2013, Elsevier. 														
c) Recommended Books	<ul style="list-style-type: none"> • Sakguchi RL, Power JM; Craig's Restorative Dental materials. 13th edition, 2012, Elsevier. 														

Course Coordinator: prof. Taheya Mousa

Head of Department: Prof. Essam Abdelhafez

Date: / 3 /2016

University: Future University in Egypt.

Faculty: Faculty of Oral and Dental Medicine

Department: Orthodontics and Pediatric Dentistry

Course Specification

1- Basic Information		
Course Title: Psychology	Course Code: 622	Level: 1
Master degree in: Dental public Health and community Dentistry	Credit Hours: 2 Theoretical 2 Practical -	

2- Aim of the course to:	Understand effect of psychological behavior of the patients on dental health
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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 :	1. Explain effect of psychological behavior of the patients on dental health
b) Intellectual Skills:	1. Correlate psychological status with dental health
c) Professional and Practical Skills	1. Evaluate the techniques and tools used in behavior management of children 2. Take various psychological decisions in treatment of children
d) General and transferable skills	1. Continue self-learning in both academic and practical fields

4- Course Contents:	Effect of psychological behavior of the patients on dental health (part 2)
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5- Teaching and Learning Methods	<ol style="list-style-type: none"> 1. Interactive lectures including discussion and brain storming 2. Small groups sessions 3. Case study and problem solving 4. Demonstration 5. Self study 6. seminars and presentations
6- Teaching and Learning Methods for special needs students	-----.
7- Student Assessment	
a) Assessment Methods	Written examination to assess knowledge and understanding.
b) Assessment Schedule	written exam
c) Weighting of Assessment	100 % written exam

8- List of References	
a. Course Notes	Handout of presented seminars
b. Essential Books (Text Books)	McMilan RA. ,Psychology: A Concise Introduction, 2010
c. Recommended Books	
d. Scientific periodicals, bulletins, etc.....	<ul style="list-style-type: none"> • www.pubmed.com. • www.sciencedirect.com.

Course Coordinator: Prof. Amany Safwat

Date: / 3 /2016

Elective courses

University: Future University in Egypt.

Faculty: Faculty of Oral and Dental Medicine

Department: general supplementary sciences

Course Specification

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

2- Aim of the course:	<ol style="list-style-type: none"> 1) Explains the Chemistry and the metabolism of Biological Molecules. 2) understand the chemical function of Biomolecules and highlights the importance of individual molecules inside the cell. 3) understand the metabolic changes of different molecules inside the body. 4) understand the basic principles of errors of metabolism and their reflection on the health of the individual.
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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 :	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) Intellectual Skills:	<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>
c) Professional and Practical Skills:	<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>
d) General and transferable skills	<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>

4- Course Contents:	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
5- Teaching and Learning Methods	<ul style="list-style-type: none"> • Lectures • Practical training • Small group discussion 	

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

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

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

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

2- Aim of the course:	To make the candidates familiar with prevention and management of medical emergencies in dental clinic
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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 :	1- Summarize local anesthetic drugs. 2- Memorize Safe precautions for Dental Chair Anesthesia. 3- Define types of common medical emergencies in dentistry. 4- Identify Resuscitation Council's Guidelines 5- Recognize special demands for Pediatric medical emergencies. 6- Identify emergency drug kit and equipment, and the knowledge to properly use all items.
b) Intellectual Skills:	1- calculate Appropriate dosage of drug related emergencies 2- select patients susceptible to medical emergency

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

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

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

8- List of References	
a. Course Notes	
b. Essential Books (Text Books)	Elsevier :Medical Emergencies in the Dental Office 7 th Edition
c. Recommended Books	Wiley : Basic Guide to Medical Emergencies in the Dental Practice
d. Scientific periodicals, bulletins, etc.....	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

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

2- Aim of the course:	<ol style="list-style-type: none"> 1) To educate the students about the basics of surgical, biological, prosthetic and periodontal considerations that should be followed during implantation. 2) To familiarize the student with different recent treatment modalities of varying difficulties. 3) To enable students to detect the causes of implant failure and their management. 4) To educate students about the care and maintenance aspect of the implant
3- Intended Learning Outcomes of Course (ILO) : By the end of the course, post graduate student should be able to:	
a) Knowledge and understanding :	A1- identify the basics of diagnosis with the treatment planning of the badly broken and/or missing teeth for implantation. A2- Recognize the biological and periodontal aspects of the implant. A3- Identify the principles and types of luting cements A4- discuss treatment options for un-restorable and/or missing teeth.
b) Intellectual Skills:	B1- order the steps of implant preparation in order to fulfill biological and periodontal considerations B2- classify properly the parameters of implant success and failure.

<p>c) Professional and Practical Skills:</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>d) General and transferable skills</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>4- Course Contents:</p>	<table border="1"> <tr><td>Theory of Osseointegration</td></tr> <tr><td>Armamentarium and Types of implants</td></tr> <tr><td>Surgical Techniques</td></tr> <tr><td>Diagnosis of Peri-implant mucositis & Peri-implant implantitis</td></tr> <tr><td>Treatment of Peri-implant mucositis & Peri-implant implantitis</td></tr> <tr><td>Principles of implant location; prosthetic & anatomical considerations</td></tr> <tr><td>Prosthetic template; construction & uses</td></tr> <tr><td>Types of impression techniques in prosthetic implant dentistry</td></tr> <tr><td>Types of implant supported prosthesis</td></tr> <tr><td>Planning and follow up</td></tr> <tr><td>Radiographic assessment and 3D evaluation</td></tr> </table>	Theory of Osseointegration	Armamentarium and Types of implants	Surgical Techniques	Diagnosis of Peri-implant mucositis & Peri-implant implantitis	Treatment of Peri-implant mucositis & Peri-implant implantitis	Principles of implant location; prosthetic & anatomical considerations	Prosthetic template; construction & uses	Types of impression techniques in prosthetic implant dentistry	Types of implant supported prosthesis	Planning and follow up	Radiographic assessment and 3D evaluation
Theory of Osseointegration												
Armamentarium and Types of implants												
Surgical Techniques												
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Prosthetic template; construction & uses												
Types of impression techniques in prosthetic implant dentistry												
Types of implant supported prosthesis												
Planning and follow up												
Radiographic assessment and 3D evaluation												
<p>5- Teaching and Learning Methods</p>	<ul style="list-style-type: none"> • Lectures • Small group discussion 											
<p>6- Teaching and Learning Methods for special needs students</p>	<p>-----</p>											

7- Student Assessment	
a) Assessment Methods	Written examination (short questions, multiple choice)
b) Assessment Schedule	Final written at the end of the course
c) Weighting of Assessment	100 written exam

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

Course Coordinator: Dr. Nelly Hamouda

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: Laser applications in dentistry	Course Code: 632	Level: 1 st year master degree Elective course
Master degree in: all specialties	<i>Credit Hours: 2 / Theoretical:2 / Practical:0</i>	
2- Aim of the course:	<ol style="list-style-type: none"> To demonstrate general understanding of laser use in dentistry To improve the health and wellbeing of patients through the proper use of laser technology. To overview the research and clinical aspects of the safe and effective uses of lasers in dentistry. 	
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"> Identify the scientific and clinical principles of lasers in dentistry. Discuss basic concepts of laser physics and segmentation of wavelengths. Explain the nature of light, the light spectrum and laser wavelengths. Explain the basic elements of laser - tissue interaction. Become familiar with different types of laser used in dentistry Identify laser set up, delivery system and power settings, laser applications used in dental soft and hard tissue management. 	
b. Intellectual Skills:	<ol style="list-style-type: none"> Make decisions regarding proper laser type, mode, watt, and frequency. Predict the wide advantages of using laser in the dental office. 	
c. Professional and Practical Skills:	<ol style="list-style-type: none"> Use of lasers through hands-on clinical simulation. Apply Laser in dental soft and hard tissue management. integrate laser use in treatment successfully Use laser safety and infection control in the dental practice. 	

<p>d. General and transferable skills</p>	<p>1- Assess regularly one's knowledge and skills, and seek additional information to correct deficiencies and enhance performance.</p> <p>2- Implement and monitor infection control and environmental safety programs according to current standards.</p>
<p>4- Course Contents:</p>	<ul style="list-style-type: none"> • Introduction to the course • Differences between laser and visible light • Differences between laser and x ray <hr/> <ul style="list-style-type: none"> • Laser physics and beam generation • General characters of laser beam <hr/> <ul style="list-style-type: none"> • Lasers in dentistry: uses, advantages, and limitations <hr/> <ul style="list-style-type: none"> • Different types and modes of laser <hr/> <ul style="list-style-type: none"> • CO2 laser, Properties and advantages <hr/> <ul style="list-style-type: none"> • Diode laser, Properties and advantages <hr/> <ul style="list-style-type: none"> • Nd-YAG laser, Properties and advantages • Low level laser applications • Soft tissue laser procedures • Hard tissue laser procedures <hr/> <ul style="list-style-type: none"> • Laser interaction with biological tissues <hr/> <ul style="list-style-type: none"> • Photo-chemical interaction and its applications • biostimulation <hr/> <ul style="list-style-type: none"> • Photo-thermal interaction and its applications <hr/> <ul style="list-style-type: none"> • Photo-electrical interaction and its applications <hr/> <ul style="list-style-type: none"> • Photo-mechanical interaction and its applications <hr/> <ul style="list-style-type: none"> • Laser safety
<p>5- Teaching and Learning Methods</p>	<p>Lectures by PPS presentations</p> <p>Open – discussion lectures</p> <p>Clinical training:</p> <ul style="list-style-type: none"> • Demonstrations and videos • Case studies • Work sheets and surveys • Report back sessions

Second part courses

University: Future University in Egypt.

Faculty: Faculty of Oral and Dental Medicine

Department: Orthodontics and Pediatric Dentistry

Course Specification

1. Basic Information		
Course Title: Pedodontics I	Course Code: 727	Level: 2
Master degree in: Pediatric Dentistry	Credit Hours: 6 Theoretical: 3 Practical: 6	

<p style="text-align: center;">2. Aim of the course:</p>	<ul style="list-style-type: none"> - Provide students with knowledge & skills necessary for improvement, maintenance & treatment of oral health of infants, children and adolescents through the application of scientific research methodologies. - Differentiate between morphology and accordingly function and management of primary and permanent dentition. - Application of the diagnostic modalities through radiographs and labs and its use in pediatric dentistry. - To enable the students to apply specialized knowledge and integrate it with relevant pathological and psychological knowledge to diagnose and treat carious lesions among children and adolescents. - Developing the skills which enable efficient communication with the patient, the caregivers as well as other team members and being able to lead a team in decision making. - Understand psychological management and apply the most appropriate behavior modification up to the different pharmacological management approaches of the patient. - Mastering different approaches in the management of hereditary anomalies and syndromes in pediatric dentistry. - Understand and master different techniques of pain control in the child patient.
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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>Knowledge and understanding :</p>	<ul style="list-style-type: none"> - Recognize the aims, indications as well as limitations of various diagnostic aids used in pediatric dentistry. - Recognize and memorize the morphological differences between primary and permanent dentition and their significance in clinical practice - Identify and differentiate between different factors that might affect the pattern of tooth eruption. - Recognize the different methods and techniques of pain control. - Enumerate the factors that influence the child's behavior in dental office and the different psychological management approaches. -Recognize and describe the need for and types of pharmacological management approaches. - Describe and recognize different techniques used to restore primary and young permanent teeth with reference to international standards and guidelines. -List and differentiate between the advantages and disadvantages of various restorative materials.
<p>Intellectual Skills:</p>	<ul style="list-style-type: none"> - Apply health and safety regulations as they greatly affect dental practice and environment. - Create an accurate data base of child and parent information from which to formulate an accurate diagnosis. - Assess patient's treatment needs and deciding a treatment plan accordingly.
<p>Professional and Practical Skills:</p>	<ul style="list-style-type: none"> -Differentiate clinically between primary and permanent teeth and managing each according to function. -Manage children, whose behavior ranges from compliant to disruptive, through the use of psychological techniques so that preventive and therapeutic dental procedures can be completed. -Be competent in performing a clinical examination of the child that encompasses head and neck, facial, intra-oral and extra-oral examination -Diagnose caries and provide appropriate restorative care for primary and young permanent teeth in children.
<p>General and transferable skills</p>	<ul style="list-style-type: none"> -Demonstrate appropriate professional attitudes and behavior in different situations toward patients, colleagues and supervisors. -Communicate effectively with the child and child's parent(s) or caretaker. -Diagnose, plan, and present treatment recommendations to parents.

<p>4. Course Contents:</p>	<ol style="list-style-type: none"> 1. Morphology and Chronology 2. Eruption 3. Child psychology and behavior management 4. Advanced behavior guidance (pharmacological management) 5. Local anesthesia and pain control 6. Radiographic examination in children 7. Pediatric restorative dentistry
<p>5. Teaching and Learning Methods</p>	<ul style="list-style-type: none"> -Lectures -Seminars -Interactive lectures with discussions -Assignments -Spotting -Case studies -Problem solving cases -Self learning -Paper criticism -Clinical demonstrations -Hands-on training -Clinical practice and requirements
<p>6. Teaching and Learning Methods for special needs students</p>	<ul style="list-style-type: none"> -Direct observation -Individual teaching -Hands-on demonstration and learning
<p>7. Student Assessment</p>	
<p>Assessment Methods</p>	<ul style="list-style-type: none"> -Written examination -Oral examinations -Clinical examination
<p>Assessment Schedule</p>	<p>Final written, oral and practical exams</p>

Weighting of Assessment	Oral Examination	60 marks
	Practical Examination	60 marks
	Final Written Examination	180 marks

8. List of References	
Course Notes	<ul style="list-style-type: none"> -Handouts -Logbook -Classroom's notes -Workbook including written exercise sheets
Essential Books (Text Books)	<ul style="list-style-type: none"> -McDonald, Avery and Dean's textbook of Dentistry for the Child and the Adolescent, 9th edition, 2010. - Pinkham's textbook of Pediatric Dentistry 5th edition, 2012.
Recommended Books	<ul style="list-style-type: none"> - Textbooks in Restorative Dentistry -Textbooks in Endodontic Therapy -Textbooks in Orthodontics
Scientific periodicals, bulletins, etc.....	<ul style="list-style-type: none"> -Bulletin of American Academy of Pediatric Dentistry (AAPD) -Bulletin of Dental Trauma Guide -American Academy of Pediatric Dentistry Journal -European Academy of Pediatric Dentistry Journal

Course Coordinator: A. prof. Ossama Elshahawy

Date: / 3 /2016

University: Future University in Egypt.

Faculty: Faculty of Oral and Dental Medicine

Department: Orthodontics and Pediatric Dentistry

Course Specification

1. Basic Information		
Course Title: Preventive Dentistry	Course Code: 729	Level: 2
Master degree in: Dental public Health and community Dentistry	Credit Hours: 5 Theoretical 3 Practical 4	

2. Aim of the course to:	<ul style="list-style-type: none"> - Differentiate between levels of prevention - Show awareness and understanding of different levels of prevention of dental caries as well as their application. - Recognize and memorize factors affecting the epidemiology and prevention of periodontal diseases. - Differentiate between different communicable diseases as well as their mode of transmission and prevention. - Show the ability to assess caries risk profile for patients using various tools. - Identify the spread of dental caries within a certain community
3. Intended Learning Outcomes of Course (ILO) : By the end of the course, post graduate student should be able to:	
Knowledge and understanding :	<ul style="list-style-type: none"> - Define levels of prevention - Recognize different caries indices and their application - Identify different modes of transmission of communicable diseases as well as the methods of prevention.

Intellectual Skills:	<ul style="list-style-type: none"> - Differentiate between different levels of prevention as well as their significance and impact on the used preventive strategies and techniques - Choose the appropriate preventive strategy for each target population according to their risk profile - Construct a research design and choose proper research method
Professional and Practical Skills:	<ul style="list-style-type: none"> - Evaluate and analyze the techniques used in caries prevention - Show the ability to conduct surveys and epidemiological studies for different populations. - Show the ability to plan a preventive program as well as to implement it. - Evaluate and use different tools of caries risk assessment
General and transferable skills	<ul style="list-style-type: none"> - Use recent tools and technologies towards serving the professional practice - Communicate effectively with health professionals as well as with target populations - Develop skills necessary for teamwork and group practice - Demonstrate effective self management and planning - Plan and present preventive and early intervention strategies

4. Course Contents:	<ul style="list-style-type: none"> - Levels of prevention - Prevention of dental caries - Epidemiology of dental caries - Dental caries indices - Caries risk assessment - Epidemiology of periodontal disease - Prevention of periodontal disease - Prevention of communicable diseases
5. Teaching and Learning Methods	<ul style="list-style-type: none"> - Interactive lectures (including discussions and brain storming) - Requirements - Problem solving cases - Self-study (small projects or reports /reading materials/online materials/presentations/seminars)

6. Teaching and Learning Methods for special needs students	Individual teaching
7. Student Assessment	
Assessment Methods	Written examination Oral examination
Assessment Schedule	At the end of the course
Weighting of Assessment	90 marks written 60 marks oral

8. List of References	
Course Notes	Power point presentations Hand outs Department books
Essential Books (Text Books)	Textbook of Preventive and Community Dentistry, 2 nd edition, 2011.
Recommended Books	Textbook of Public Health Dentistry, 3 rd edition, 2016.
Scientific periodicals, bulletins, etc.....	www.pubmed.com www.Science direct.com www.blackwell.com

Course Coordinator: A. prof. Ossama Elshahawy

Date: / 3/2016

University: Future University in Egypt.

Faculty: Faculty of Oral and Dental Medicine

Department: Orthodontics and Pediatric Dentistry

Course Specification

1. Basic Information		
Course Title: Community Medicine and Public Health I	Course Code: 731	Level: 2
Master degree in: Pediatric Dentistry	Credit Hours: 3 Theoretical: 3 Practical: -	

2. Aim of the course:	<ul style="list-style-type: none"> -Introduce the candidate to the bases and principles of public health including common terminologies used. -To support the acquisition of basic knowledge of community medicine. -To understand the factors affecting the epidemiology of communicable and non-communicable diseases. -Prepare a community- oriented physician capable of implementing preventive and control measures for common communicable and non-communicable diseases on the individual, family and community levels and within the primary health care (PHC) settings. -To have the capability to respond to community health needs within the primary health care (PHC) setting. -Prepare a candidate who would take a role in educating, motivating and supervising in health promotion, prevention and control of diseases programs.
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3. Intended Learning Outcomes of Course (ILO) : By the end of the course, post graduate student should be able to:	
Knowledge and understanding :	<ul style="list-style-type: none"> -Define the common terms used in the field of epidemiology -Identify the components of the infection cycle. -Appreciate the role of public health epidemiologist in disease prevention and control. -Define measures of disease frequency and measures of association between risk factors and disease. -Define the role of nutrition in health and disease. -Describe basics of primary health care.
Intellectual Skills:	<ul style="list-style-type: none"> -Calculate measures of disease frequency and measures of association between risk factors and disease; -Deal appropriately with specific health problems; -Determine appropriate use of data for problem identification and solving; - Identify trends in health and disease including epidemiological causes of high prevalence of certain infections, causes of eradication, emerging or reemerging previous infections worldwide and in Egypt;
Professional and Practical Skills:	<ul style="list-style-type: none"> -Appreciate the utilization of data in medical and social research; -Criticize the prevention and control measures of an infectious disease in a given community; -Apply the principles of epidemiology to some airborne, food borne, contact and arthropods transmitted diseases; - Apply epidemiologic skills in a public health setting, specifically in the formulation of public health programs and policies;
General and transferable skills	<ul style="list-style-type: none"> - Work effectively as a member or a leader of an interdisciplinary team; -Adopt principles of public health and preventive medicine to various health problems; -Detect resources required for implementation of health education programs; -Test effectiveness of implemented health education problems;

4. Course Contents:	<ol style="list-style-type: none"> 1.Introduction & basics of public health 2.Epidemiology of communicable diseases 3.Epidemiology of non-communicable diseases 4.Oral health education programs
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5. Teaching and Learning Methods	<ul style="list-style-type: none"> -Lectures -Seminars -Interactive lectures with discussions -Assignments -Class discussion -Problem solving cases -Self learning 	
6. Teaching and Learning Methods for special needs students	Individual teaching	
7. Student Assessment		
Assessment Methods	<ul style="list-style-type: none"> -Written examination -Oral examination 	
Assessment Schedule	Final written and oral exams	
Weighting of Assessment	Oral Examination	40 marks
	Final Written Examination	60 marks
8. List of References		
Course Notes	<ul style="list-style-type: none"> -Handouts -Logbook -Classroom's notes -Workbooks including written exercises 	
Essential Books (Text Books)	<ul style="list-style-type: none"> - PARK's Textbook of preventive and social medicine by John Everett Park- BanarsidasBhanot 20th edition 2009 - Foundations of Public Health and community medicine By Ibrahim SolimanHegazy: 1st edit. 2010 	
Recommended Books	<ul style="list-style-type: none"> - Text books in Medical epidemiology - Text books in Non-communicable diseases epidemiology 	
Scientific periodicals, bulletins, etc.....	<ul style="list-style-type: none"> -Bulletin of World Health organization -American Journal of Public Health -Weekly Epidemiological Record -Pubmed 	

Course Coordinator: A. prof. Ossama Elshahawy

Date: / 3 /2016

University: Future University in Egypt.

Faculty: Faculty of Oral and Dental Medicine

Department: Orthodontics and Pediatric Dentistry

Course Specification

1. Basic Information		
Course Title: Pediatrics I	Course Code: 733	Level: 2
Master degree in: Pediatric Dentistry	Credit Hours: 3 Theoretical: 3 Practical: -	

2. Aim of the course:	<ul style="list-style-type: none"> -To provide the students with basic knowledge of normal and abnormal growth and development (physical, physiologic and psychological) and its clinical application from birth till adolescence; -To provide students with appropriate knowledge and skills needed for proper management of different pediatric age groups; -To provide the students with appropriate professional attitude, communication and problem solving skills; -Prepare the student to manage pediatric patients with special medical conditions and thereby providing them with most appropriate dental treatment; -Understand the different medical conditions that might affect the oral and dental health of the patient as well as recognizing the needed precautions prior to conducting the dental treatment;
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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 :	<ul style="list-style-type: none"> -Describe normal growth and development during infancy, childhood and adolescence; -Identify abnormalities of growth and development during infancy and childhood; -Describe appropriate management for abnormalities affecting growth and development; -Recognize the most important behavioral and social issues during childhood and adolescence and their impact on the patient's perception of dental treatment; -Describe appropriate measures for health promotion as well as prevention of disease and injury in infants, children and adolescents; - Identify certain genetic diseases as well as other medical conditions and their impact on dental and oral health; -Describe the causes, pathogenesis, clinical symptoms, signs, investigations, treatment and prognosis of the most important neonatal and pediatric problems including mental retardation and cerebral palsy;
b) Intellectual Skills:	<ul style="list-style-type: none"> -Recognize the important role played by other health care professions in patients' management, respecting their contributions in patient's management; - Integrate basic anatomical, biochemical and physiological facts with clinical data; - Formulate appropriate management plans for individual patients presenting with the most common pediatric diseases and demanding dental treatment; -
c) Professional and Practical Skills:	<ul style="list-style-type: none"> -Recognize the important role played by other health care professions in patients' management, respecting their contributions; - Apply the national code of ethics; - Recognize one's own limitations of knowledge and skills and appreciate the multi-disciplinary approach;

d) General and transferable skills	<ul style="list-style-type: none"> - Present patient's data in an organized and informative manner; - Work effectively within a multidisciplinary team; - Manage time and resources effectively and set priorities;
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4. Course Contents:	<ol style="list-style-type: none"> 1.Growth & development 2.Developmental milestones 3.Short stature 4.Puberty 5.Mental retardation 6.Cerebral palsy 				
5. Teaching and Learning Methods	<ul style="list-style-type: none"> -Lectures -Interactive lectures with discussions -Assignments -Presentations -Self learning 				
6. Teaching and Learning Methods for special needs students	Individual teaching				
7. Student Assessment					
Assessment Methods	<ul style="list-style-type: none"> -Written examination -Oral examination 				
Assessment Schedule	Final written and oral exams				
Weighting of Assessment	<table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Oral Examination</td> <td style="text-align: right;">60 marks</td> </tr> <tr> <td>Final Written Examination</td> <td style="text-align: right;">90 marks</td> </tr> </table>	Oral Examination	60 marks	Final Written Examination	90 marks
Oral Examination	60 marks				
Final Written Examination	90 marks				

8. List of References	
Course Notes	-Handouts -Logbook
Essential Books (Text Books)	-Department book and notes
Recommended Books	Nelson's "Essentials of Pediatrics", 6 th edition, 2010
Scientific periodicals, bulletins, etc.....	-Bulletin of American Academy of Pediatrics

Course Coordinator: A. prof. Ossama Elshahawy

Date: / 3 /2016

University: Future University in Egypt.

Faculty: Faculty of Oral and Dental Medicine

Department: Orthodontics and Pediatric Dentistry

Course Specification

1. Basic Information		
Course Title: Pedodontics II	Course Code: 728	Level: 2
Master degree in: Pediatric Dentistry	Credit Hours: 6 Theoretical: 3 Practical: 6	

2. Aim of the course:	<ul style="list-style-type: none"> - Provide students with the knowledge and skills necessary for proper diagnosis and treatment of deep caries in children and adolescents. - To enable students to diagnose, classify and treat traumatic dental injuries in primary and young permanent teeth. - Provide the students with the skills and knowledge needed for the proper management of the developing occlusion in children and adolescents including space management as well as interceptive approaches when indicated. - To enable the students to provide oral health care to children and adolescents including patients with special health care needs. - Mastering different approaches in the management of hereditary anomalies and syndromes in pediatric dentistry. - Provide students with knowledge and skills for the diagnosis and treatment of different gingival and periodontal conditions in pediatric patients. - To enable students to identify conditions requiring surgical intervention as well as performing minor surgical procedures. - To identify the different indications as well as the procedure of dental rehabilitation performed for children and adolescents under general anesthesia
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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>Knowledge and understanding :</p>	<ul style="list-style-type: none"> -Understand different techniques used in pulp therapy of primary and young permanent teeth. -Recognize different types and classes of traumatic injuries and set the most appropriate treatment for each. -Understand and recognize the normal development of occlusion and accordingly being able to identify any deviation from such pattern. -Recognize the different indications for space maintenance based on proper space analysis as well as describing possible management approaches for different cases of space problems. -Distinguish between different gingival and periodontal conditions affecting children and adolescents. -Understand indications for dental treatment under general anesthesia as well as its contraindications and possible complications. -Distinguish between different treatment needs of healthy children and those with special health care needs.
<p>Intellectual Skills:</p>	<ul style="list-style-type: none"> - Consider health and safety regulations as they greatly affect dental practice and environment. - Create an accurate data base of child and parent information from which to formulate an accurate diagnosis. - Assess patient's treatment needs and deciding a treatment plan accordingly. -Utilize problem solving and decision making skills to provide comprehensive pediatric treatment -Formulate and present dental treatment plan for children and their parents.
<p>Professional and Practical Skills:</p>	<ul style="list-style-type: none"> -Master different pulp therapy procedures performed in primary and young permanent teeth followed by the placement of an appropriate final restoration. -Be able able to perform an efficient clinical examination of the child including intra-oral and extra-oral assessment. -Identify cases that would benefit from interceptive orthodontic treatment and manage each case accordingly. -Diagnose and treat different gingival and periodontal conditions in children. -Be able to evaluate the dental condition of children with special needs and set a suitable treatment plan according to their treatment needs. -Conduct the required emergency treatment for cases of dental traumatic injuries as well as acute pulpal conditions. -Master the management of traumatized primary and permanent teeth including proper diagnosis and classification of the injury.

General and transferable skills	<ul style="list-style-type: none"> -Demonstrate appropriate professional attitudes and behavior in different situations toward patients, colleagues and supervisors. -Communicate effectively with the child and child's parent(s) or caretaker. -Master the psychological management of the patient including different behavior modification techniques. -Diagnose, plan, and present treatment recommendations to parents. -Write a referral letter when needed. -Demonstrate effective self-management and planning
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4. Course Contents:	<ol style="list-style-type: none"> 1.Management of deep carious lesions in primary & young permanent teeth 2.Traumatic dental injuries 2.Management of developing occlusion 3.Management of handicapped children 4.General anesthesia 5.Gingivel & periodontal diseases 6.Oral surgery
5. Teaching and Learning Methods	<ul style="list-style-type: none"> -Lectures -Seminars -Interactive lectures with discussions -Assignments -Presentations -Spottings -Class discussion -Case studies -Problem solving cases -Self learning -Paper criticism -Clinical demonstrations -Hands-on training -Clinical practice and requirements
6. Teaching and Learning Methods for special needs students	<ul style="list-style-type: none"> -Direct observation -Individual teaching -Hands-on demonstration and learning
7. Student Assessment	
Assessment Methods	<ul style="list-style-type: none"> -Written examinations -Oral examinations -Clinical examination
Assessment Schedule	Final written, oral and practical exams

Weighting of Assessment	Oral Examination	60 marks
	Practical Examination	60 marks
	Final Written Examination	180 marks

8. List of References

Course Notes	<ul style="list-style-type: none"> -Handouts -Logbook -Classroom's notes -Workbook including written exercise sheets
Essential Books (Text Books)	<ul style="list-style-type: none"> - McDonald, Avery and Dean's textbook of Dentistry for the Child and the Adolescent, 9th edition, 2010. - Pinkham's textbook of Pediatric Dentistry 5th edition, 2012.
Recommended Books	<ul style="list-style-type: none"> -Textbooks in Restorative Dentistry -Textbooks in Endodontic Therapy -Textbooks in Orthodontics
Scientific periodicals, bulletins, etc.....	<ul style="list-style-type: none"> -Bulletin of American Academy of Pediatric Dentistry (AAPD) -Bulletin of Dental Trauma Guide -American Academy of Pediatric Dentistry Journal -European Academy of Pediatric Dentistry Journal

Course Coordinator: A. prof. Ossama Elshahawy

Date: / 3 /2016

University: Future University in Egypt.

Faculty: Faculty of Oral and Dental Medicine

Department: Orthodontics and Pediatric Dentistry

Course Specification

1. Basic Information		
Course Title: Preventive Dentistry	Course Code: 730	Level: 2
Master degree in: Dental public health and community dentistry	Credit Hours: 5 Theoretical 3 Practical 4	

2. Aim of the course to:	<ul style="list-style-type: none"> - Provide students with knowledge about prevention of periodontal diseases - Understand methods of prevention of oral cancer - Develop the skills which enable group practice and teamwork - Understand the factors which allow for efficient organization of dental care - Enable students to identify methods of prevention of traumatic injuries - Provide students with knowledge about prevention of malocclusion
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3. Intended Learning Outcomes of Course (ILO) :
By the end of the course, post graduate student should be able to:

Knowledge and understanding :	<ul style="list-style-type: none"> - Identify methods of prevention of traumatic injuries - Recognize methods of prevention of oral cancer as well as tools used for early diagnosis - Describe factors which promote occlusal abnormalities as well as methods of prevention early intervention - Identify patients who are at increased risk for traumatic dental injuries
Intellectual Skills:	<ul style="list-style-type: none"> - Define and differentiate between group practice and teamwork - Evaluate methods affecting organization of dental care - Assess risks of oral cancer

<p>Professional and Practical Skills:</p>	<ul style="list-style-type: none"> - Mention and differentiate between different methods for preventing traumatic injures - Evaluate the techniques used in prevention of malocclusion - Use preventive technology towards serving the professional practice - Identify oral habits as well as their effect on the developing occlusion and means of early intervention - Evaluate the factors affecting the oral health condition of orthodontic patients
<p>General and transferable skills</p>	<ul style="list-style-type: none"> - Use recent tools and technologies towards serving the professional practice - Communicate effectively with health professionals as well as with target populations - Develop skills necessary for teamwork and group practice - Demonstrate effective self management and planning - Plan and present preventive and early intervention strategies

<p>4. Course Contents:</p>	<ul style="list-style-type: none"> - Prevention of traumatic injures - Prevention of oral cancer - Prevention of occlusal abnormalities - Group practice and team work - Needs and demands - Organization of dental care - Indices of periodontal disease - Prevention of oral habits - Oral health care for orthodontic patients
<p>5. Teaching and Learning Methods</p>	<ul style="list-style-type: none"> - Lectures - Lecture with discussion - Interactive lectures (including discussions and brain storming) - Problem solving -Cases - Self-study (small projects or reports /reading materials/online materials/Presentations/seminars)
<p>6. Teaching and Learning Methods for special needs students</p>	<p>Individual teaching</p>
<p>7. Student Assessment</p>	
<p>Assessment Methods</p>	<p>Written examination Oral examination</p>

Assessment Schedule	Final written and oral exams
Weighting of Assessment	90 marks written 60 marks oral

8. List of References	
Course Notes	Power point presentations Hand outs
Essential Books (Text Books)	Textbook of Preventive and Community Dentistry. 2 nd edition, 2011
Recommended Books	Textbook of Public Health Dentistry. 3 rd edition, 2016
Scientific periodicals, bulletins, etc.....	www.pubmed.com www.Science direct.com www.blackwell.com

Course Coordinator: A. prof. Ossama Elshahawy

Date: / 3 /2016

University: Future University in Egypt.

Faculty: Faculty of Oral and Dental Medicine

Department: Orthodontics and Pediatric Dentistry

Course Specification

1. Basic Information		
Course Title: Community Medicine and Public Health II	Course Code: 732	Level: 2
Master degree in: Pediatric Dentistry	Credit Hours: 3 Theoretical: 3 Practical: -	

2. Aim of the course:	<ul style="list-style-type: none"> -Introduce the candidate to various epidemiological research methods; -Describe health, disease, spectrum of health and patterns of care; -Understand epidemiological study design and tools; -To ensure graduate will be able to implement and evaluate different prevention and control measures; -To be able to diagnose, investigate and monitor health problems and health hazards of the community; -Understand prevention and control of hospital infection as well as their magnitude and burden; -Recognize the importance of the standard precautions which should be applied to all patient care in any setting;
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3. Intended Learning Outcomes of Course (ILO) : By the end of the course, post graduate student should be able to:	
Knowledge and understanding :	<ul style="list-style-type: none"> -Describe major epidemiological study designs, advantages and limitations; -Define and assess determinants of health, illness and factors contributing to health promotion and disease prevention for vulnerable groups and settings e.g. rural, school, elderly and disabled; -Describe prevention and control of hospital infection; -Define different health policies, systems, programs, as well as the approved standards of practice; -Define the screening tests, their significance and types; -Define work-related hazards for different occupations and jobs, prevention and control of occupational hazards;
Intellectual Skills:	<ul style="list-style-type: none"> -Adopt principles of public health and preventive medicine to various health problems; -Explain the basic terms and methods used in infectious disease epidemiology, disease prevention and control trials, outbreak investigation and screening tests; -Identify the infectious cycle for selected diseases and explain appropriate health promotion, disease prevention and control measures; -Construct and interpret tables and graphs;

<p>Professional and Practical Skills:</p>	<ul style="list-style-type: none"> -Design an epidemiologic study for an investigation of an epidemic as part of a health team and to address a question of interest; -Apply the use of different epidemiological tools; -Determine appropriate use of data and statistical methods for problem identification and resolution; -Manage the prevention and control of factors related to hospital acquired infections; -Plan for the management of occupational exposures to infections and monitoring developed infections among them; -Master the designing of education and training programs about the standard precautions together with proper supervision; -Acknowledge the importance of a multidisciplinary approach for disease prevention, national health care programs and in conducting public health surveillance to address specific public health problems;
<p>General and transferable skills</p>	<ul style="list-style-type: none"> - Interact and communicate effectively and professionally and demonstrate respect for persons from diverse cultural, socioeconomic, educational and professional backgrounds; - Work effectively as a member or a leader of an interdisciplinary team; - Detect resources required for conduction of public health surveillance;

<p>4. Course Contents:</p>	<ol style="list-style-type: none"> 1.Epidemiological research methods 2.Epidemiological study design 3.Public health surveillance 4.Health care associated infections
<p>5. Teaching and Learning Methods</p>	<ul style="list-style-type: none"> -Lectures -Seminars -Interactive lectures with discussions -Assignments -Class discussion -Problem solving cases -Self learning
<p>6. Teaching and Learning Methods for special needs students</p>	<ul style="list-style-type: none"> -Direct observation -Individual teaching

7. Student Assessment	
Assessment Methods	-Written examination -Oral examination
Assessment Schedule	Final written and oral exams
Weighting of Assessment	Oral Examination 40 marks Final Written Examination 60 marks

8. List of References	
Course Notes	-Handouts -Logbook -Classroom's notes -Workbooks including written exercises
Essential Books (Text Books)	- PARK's Textbook of Preventive and Social Medicine by John Everett Park-Banarsidas Bhanot, 20th edition, 2009 - Foundations of Public Health and Community Medicine by Ibrahim Soliman Hegazy: 1st edition, 2010
Recommended Books	- Text books in Medical epidemiology - Text books in Non-communicable diseases epidemiology
Scientific periodicals, bulletins, etc.....	-Bulletin of World Health organization -American Journal of Public Health -Weekly Epidemiological Record -Pubmed

Course Coordinator: A. prof. Ossama Elshahawy

Date: / 3 /2016

University: Future University in Egypt.

Faculty: Faculty of Oral and Dental Medicine

Department: Orthodontics and Pediatric Dentistry

Course Specification

1. Basic Information		
Course Title: Pediatrics II	Course Code: 734	Level: 2
Master degree in: Pediatric Dentistry	Credit Hours: 3 Theoretical: 3 Practical: -	

2. Aim of the course:	<ul style="list-style-type: none"> - To provide the students with basic knowledge of normal nutrition required for proper growth and development as well as the impact of malnutrition; -To provide the necessary information regarding the immunizations according to the national schedule; - Prepare the student to manage pediatric patients with special medical conditions and thereby providing them with most appropriate dental treatment; - Understand the different medical conditions that might affect the oral and dental health of the patient as well as recognizing the needed precautions prior to conducting the dental treatment;
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3. Intended Learning Outcomes of Course (ILO) :	
By the end of the course, post graduate student should be able to:	
Knowledge and understanding :	<ul style="list-style-type: none"> -Determine the nutritional requirements and the most common nutritional disorders affecting infants and children as well as their impact on the child’s dentition and oral health; -Describe appropriate management for nutritional disorders; -Describe the indications, contraindications, administration and precautions of the immunizations necessary for infants and children according to the national schedule; - Describe the causes, pathogenesis, clinical symptoms, signs, investigations, treatment and prognosis of the most important neonatal and pediatric problems including rickets, infective endocarditis, diabetes mellitus and chronic renal failure; -Understand and list the impact of certain medical conditions on the patient’s dental health as well as the necessary precautions needed prior to conducting any dental treatment; including rickets, infective endocarditis, diabetes mellitus and chronic renal failure;
Intellectual Skills:	<ul style="list-style-type: none"> - Interpret the results obtained from history, clinical examination and investigations in pediatric patients; - Prioritize the medical problems in pediatric patients; - Make decisions regarding common clinical situations using appropriate problem solving skills;
Professional and Practical Skills:	<ul style="list-style-type: none"> - Recognize the important role played by other health care professions in patients' management, respecting their contributions; - Apply the national code of ethics; - Recognize one’s own limitations of knowledge and skills and appreciate the multi-disciplinary approach;
General and transferable skills	<ul style="list-style-type: none"> -Present patient’s data in an organized and informative manner; - Work effectively within a multidisciplinary team; - Manage time and resources effectively and set priorities;

4. Course Contents:	<ol style="list-style-type: none"> 1.Normal nutrition 2.Fever & immunization 3.Rickets 4.Infective endocarditis 5.Diabetes Mellitus 6.Chronic renal failure
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