



Course Specification

2018-2019



Preparatory Year



Course Specification

Course Title	Chemistry	
Course Code	TDEN 00:01	
Academic Year	2018-2019	
Coordinator	Prof. El-Refia Kenawy and Prof. ElZeiny Ebeed	
Teaching Staff	Prof. El-Refia Kenawy and Prof. ElZeiny Ebeed	
Branch / Level	Pre-dentistry	
Semester	One and two	
Pre-Requisite	-B.D.S	
Course Delivery	Lecture	2h lectures × 24
	Practical	2h practical × 24
Parent Department	Chemistry Department, Faculty of Science	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The course aims to:

- Understand the chemistry of polymer synthesis ,synthesis of polymeric materials and applications.
- Understand the applications of polymeric materials in dentistry, medicine and daily life.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1.recognize nature and properties of polymeric materials
- a2. identify How to synthesize and characterize the polymeric materials
- a3.list Recent topic related to medical fields for application of polymers.
- a4.describe common analytical techniques and instrumentation that helps in studying dental materials and assesses their quality assurance.

B. Intellectual skills:

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

- b1.plan ideas of material science, dental materials and their quality assurance, molecular level processes in biology and medicine.
- b2.select materials for dental applications.

C. Professional and practical skills:

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

- c1.demonstrate the ability to prepare and characterize the polymeric materials
- c2.measure the molecular weight of polymers
- c3.apply some experimental lab work for polymer and materials science.

D. General and transferable skills:

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

- d1.express communication in written and oral
- d2. justify information technology and resources
- d3.demonstrate the ability to work effectively as a member of a team.

3. Course Contents

Didactic

3.a. Course Contents Part A: Introduction to polymer Chemistry

Week	Topics
1,2	Introduction, History of Polymers, Some Important Terms, Monomers, Oligomers, Polymers
3,4	Polymerization, Classification of Polymers , Classification Based on Source of Availability, Natural Polymers, Semi Synthetic Polymers, Synthetic Polymers, Classification according Monomer arrangement in copolymers
5,6	Classification of Polymers according to thermal behavior, Classification Based on Mode of Polymerization, Classification of polymers by applications, Molecular Structure of Polymers, Thermal Properties of Polymers, Classification of polymerization reactions, A-Addition Polymerization (Chain Polymerization), B-Condensation or step growth Polymerization

7,8	Free-radical polymerization, Free radical initiators, Autoinhibition of Allylic Monomers
9,10	Practical Aspects of How To Make An Addition Polymer, Bulk (Mass) polymerization , Solution Polymerization
11,12	Suspension polymerization , Emulsion Polymerization
13	Term Assessment Exam
14, 15	Anionic addition polymerization, Cationic Addition polymerization
16	Living Anionic Polymerization
17,18	Techniques for polycondensation
19,20	Ring-opening polymerization, Ziegler-Natta coordination polymerization
21,22	Important polycondensation polymers, Phenolic Polymers
23,24	Polyurethanes, Amino Plastics
25	Polymer Properties and MW, Recent topics in polymer chemistry

3.b. Course Contents Part B: Introduction to Material Science

Week	Topics
1,2	Naming inorganic compounds, The nucleus, isotopes, isobars and isotones. The p-n chart for stable isotopes.
3,4	Nuclear reactions with emphasis on those used in radiotherapy. Units of radioactivity. Applications. Mass spectrometry.
5	The mole concept and problems on moles.
6,7	Photon energy and its applications.
8,9	An introduction to quantum mechanics. The four quantum numbers and periodicity of elements.
10,11	Chemical bonding. Molecular orbital and valence bond theories, electronic

	transitions in molecules, singlet oxygen used in photodynamic therapy (PDT).
12	Redox reactions. Resonance. The formal charge concept.
13	Term Assessment Exam
14,15	Effect of chemical bonding on material properties, graphite, clays and zeolites, ceramics, acrylate resins.
16,17	States of matter, intermediate states of matter, amorphous materials, liquid crystals Thermal Analysis and its applications.
18,19	Solid state. Crystal systems, Bravais lattices, phase transformation and polymorphism. Point, linear and planar defects in solids and their effect on materials properties. Nanomaterials and their applications.
20,21	Alloys, totally miscible alloys, partially miscible alloys, phase rule application, amalgams.
22,23	Solutions: Electrolytes, colligative properties.
24	Acid-base properties, buffers. Ionic equilibrium , solubility product, salting-out and salting-in.
25	Chemical kinetics and Thermochemistry.

4. Teaching and Learning Methods

- Lectures
- Library and internet search
- Assignments
- Laboratory sessions

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion	degree
Written Examination	3 hours exam.	At the end of the year	60%	36
Oral examination	-	-	0%	
Practical Examination	2hrs	Mid-April	20%	12
Semester work	1hr	During the year	20%	12

6. List of references

Course notes: Course note and Laboratory manual authorized by the council of Department of Chemistry.

Essential Books:

For Polymer Chemistry Part:

Principles of Polymerization - George Odian, A JOHN WILEY & SONS, INC., PUBLICATION, 2004

Web sites:

en.wikipedia.org/wiki/Polymer_chemistry

For Material Science Part

- 1-R. H. Petrucci and W. S. Harwood "General Chemistry: Principles and modern applications", Prentice Hall International Inc., New Jersey, London (1993).
- 2- D. D. Ebbing and S. D. Gammon, "General Chemistry", Houghton Mifflin Company, Boston, New York (1999).
- 3- Some of the experiments in the Practical section were taken from leading international journals including the Journal of Chemical Education, The Chemical Educator and Chemistry in Britain.

7. Facilities required for teaching and learning

Well equipped teaching classes, with Computers, Data show, White Board, blackboard, library and internet. Supply Laboratories with enough chemicals and reagents to enable students to perform experiments by themselves.

Course Coordinator		Head of Department
Name	Prof. El-Refaie Kenawy and Prof. Elzeiny Ebeed	Prof.
Name (Arabic)	أ. د. الرفاعي قناوى- أ. د. الزينى عبيد	أ. د. محمد يسرى الشيخ
Signature	<i>El-Refaie kenawy</i>	
Date	9/2018	9/2018

Course contents											ILOs		
understanding	Knowledge and				Intellectual			Practical			Transferable		
	a1	a2	a3	a4	b1	b2	b3	C1	C2	C3	d1	d2	d3
Introduction, History of Polymers, Some Important Terms, Monomers, Oligomers, Polymers	√	√	√	√	√			√				√	
Polymerization, Classification of Polymers , Classification Based on Source of Availability, Natural Polymers, Semi Synthetic Polymers, Synthetic Polymers, Classification according Monomer arrangement in copolymers	√	√	√	√	√		√	√	√	√		√	
Classification of Polymers according to thermal behavior, Classification Based on Mode of Polymerization, Classification of polymers by applications, Molecular Structure of Polymers, Thermal Properties of Polymers, Classification of polymerization reactions, A-Addition Polymerization (Chain Polymerization), B-Condensation or step growth Polymerization	√	√	√	√	√			√	√			√	



Course Specification

Course Title	Physics
Course Code	TDEN 00:02
Academic Year	2018-2019
Teaching staff	Prof. Dr. Osama hmeda- Prof. Dr. Gaballahabd el-satar
Branch/ level	Preparatory year
Pre-Requisite	B. D. S.
Course Delivery	24×2h Lecture
	24×2h Practical
Parent Department	Physics department - Faculty of Science
Date of Approval	Faculty Council on: 19/9/2018

1-Course Aims:

The aims of this course are to:
provide students with precise knowledge about properties of matter, heat and nature of light and to teach students how to run experiments, obtain accurate result and analyze the results.

2- Intended learning outcomes (ILOS)

A. Knowledge and understanding:

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

- a.1. recognize the physical aspects of topics as much as possible.
- a.2. define the mathematical arguments and formula necessary for a thorough understanding.
- a.3. Discuss the nature of heat transfer, thermodynamics.

B. Intellectual skills:

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

- b.1. Utilize the theory of dimensions where the mathematics is difficult (viscosity)
- b.2. Appraise the "excess pressure" formula in the treatment of surface tension as well as flow of liquids and elasticity
- b.3. assess their results and develop their skills.

C. professional and practical skills:

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

- c.1. measure and run experiments to obtain accurate results.
- c.2. operate apparatus and experiments skillfully.

D. General and transferable skills:

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

- d.1. learn team work skill and cooperation.

3- Course Contents

Lee. No.	Topics
1	Units and dimensions
2	Simple harmonic motion
3	Elasticity
4	Surface tension
5	Fluid mechanics
6	Thermometers and temperature scales
7	Thermal expansion
8	Specific heat and latent heat
9	Kinetic theory of gas
10	Adiabatic processes for an ideal gas
11	Transfer of heat
12	introduction to thermodynamics
13	Coulomb's law
14	Electric field and Gauss's law.
15	Potential energy
16	Capacitors
17	Magnetic flux
18	Nature of light-speed of light
19	Reflection and refraction
20	Huygens's principle
21	Dispersion and prisms - lenses
22	Refractive index - The eye
23	introduction to statistical physics
24	The probability function

4- Teaching and Learning methods

4.1 Lectures: Textbooks.

4.2 Practical sessions.

5- Student Assessment

Assessment Method	Assessment Length	Schedule	Marks
Written Examination	3 hours	At the end of the year	36 marks
Oral Assessment	-	-	-
Semester work	30 minutes	Written examination held once a year	12 marks
Practical Examination	2hours	At the end of the year	12

6- List of references:

Course notes: Department book (Properties of mater and heat)

Essential Books: Nelkon and Parker: Advanced Level physics

Web sites:

7- Facilities required for teaching and learning

Course Coordinator		Head of Department
Name	Prof. Dr. Osama hmeda	Prof.Dr. Gaballahabd el satar
Name (Arabic)	أ.د. أسامة حميدة	أ.د. جاب الله عبد الستار
Signature		
Date	9/2018	9/2018

5.5 course contents - course ILOs Matrix

Course code /course Title: TDEN 00:02. Physics

Course contents				course outcomes					
	Knowledge and Understanding			Intellectual			Practical		Transferable
	A1	A2	A3	B1	B2	B3	C1	C2	D1
Units and dimensions	√	√		√		√			√
Simple harmonic motion	√	√		√		√	√	√	√
Elasticity	√	√		√		√	√	√	√
Surface tension	√	√		√	√	√	√	√	√
Fluid mechanics	√	√	√	√	√	√	√	√	√
Thermometers and temperature scales	√	√	√			√	√	√	√
Thermal expansion	√	√	√			√	√	√	√
Specific heat and latent heat	√	√	√			√	√	√	√
Kinetic theory of gas	√	√	√			√	√	√	√
Adiabatic processes for an ideal gas	√	√	√			√	√	√	√
Transfer of heat	√	√	√			√	√	√	√
introduction to thermodynamics	√	√	√			√	√	√	√
Coulomb's law	√	√	√			√	√	√	√
Electric field and Gauss's law.	√	√	√			√	√	√	√
Potential energy	√	√				√	√	√	√
Capacitors	√	√				√	√	√	√
Magnetic flux	√	√				√	√	√	√
Nature of light-speed of light	√	√				√	√	√	√
Reflection and refraction	√	√				√	√	√	√
Huygens's principle	√	√				√	√	√	√
Dispersion and prisms - lenses	√	√				√	√	√	√
Refractive index - The eye	√	√				√	√	√	√
introduction to statistical physics	√	√				√	√	√	√
The probability function	√	√				√	√	√	√



Course Specification

Course Title	Zoology and Genetics	
Course Code	TDEN 00:03	
Academic Year	2018-2019	
Coordinator	Prof. Dr Nahla E. Omran	
Teaching Staff	Ass. Prof Hala Abdelazeem, Dr Ezar Hazzaa and Dr. Lamia E. Bakr	
Branch / Level	Preparatory year	
Semester	First & Second semester	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	2 h lectures×24
	Practical	2h practical×24
Parent Department	Zoology Department – Faculty of Science	
Date of Approval	Faculty Council on: 19/9/2018	

1.Course Aims

- The course will enable students to gain concepts and central principles about the different types of tissues with fundamentals of gene expression, gene regulation, DNA metabolism, nucleic acid structure, recombinant DNA techniques and protein structure. Also it focuses on the study of physiology at the organ and systems level.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1. Identify microscopic anatomy and function of cells and fundamental tissues and their organization and arrangement in the various organ systems of representative vertebrates. (Histology)
- a2. recognize general physiological principles and the functional mechanisms of life processes in vertebrate body and show how they apply to the integrated functions of organ systems of mammalian system. (Physiology)
- a3. explain the nature of the genetic material, Mendelian inheritance, and transmission of the genetic material, gene regulation, biochemical genetics, and genes in populations.
- a4. list the uses of DNA technology and genetic engineering in research and industry.
- a5. Identify the concept of hierarchical classification system (taxonomy).
- a6. record the benefits and harms of given invertebrates and vertebrates
- a7. Identify the life cycle of invertebrate parasites.
- a10. describe the medical and economic importance of invertebrates

B. Intellectual skills:

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

- b1. Compare between the constituents of different tissues.
- b2. Identify the function of a given organs.
- b3. Solve problems relating to inheritance and modern biotechnology.
- b4. Suggest a treatment for the different parasitic disease.
- b5. Identify the systematic position of different organisms.
- b6. Evaluate the phylogenetic relationship between different phyla.

C. Professional and practical skills:

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

- C1. detect the principal kinds of tissues of the vertebrate body. (Histology)
- C2. Investigate the function of different organs and systems. (Physiology)
- C3. illustrate the sources of infection by parasitic invertebrates.
- C4. advice colleagues and relatives to prophylactic the infections.
- C5. apply appropriate techniques to identify parasitic forms and their larval stages.

D. General and transferable skills:

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

- d. Decide how to search literatures from the library and internet to access data and writing scientific essays

2. Course Contents

Lecture	Topics
1	Course Introduction, ILOs.
2	<u>Histology</u> : Types of microscopes and structure of eukaryotic animal cell.
3	Structure and function of living cytoplasmic organelles, plasma membrane and nucleus.
4	Basic tissue types (epithelial, connective, muscular and nervous tissues).
5	<u>Genetics</u> : Introduction and tools of genetic engineering
6	Methods of genetic engineering of cells.
7	Methods of genetic engineering of organisms: 1. Transgenic plants and animals.
8	Application of biotechnology.
9	<u>Physiology</u> : Musculoskeletal systems.
10	Cardiovascular system and the heart.

11	Body fluids and the kidneys
12	Respiratory system and Gas transport.
13	Gastrointestinal function.
14	Periodical exam
15	Taxonomy: What is taxonomy, why we classify an organism, how we make a classification, what is the scientific name
16	Protozoa characters, classification, <i>Trypanosoma</i> , <i>Leishmania</i> , <i>Trichomonas</i>
17	Parasitic Amoeba, <i>Balantidium coli</i>
18	Apicomplexa, <i>Malaria</i>
19	Porifera & Cnidaria
20	Periodical exam 1, research activity
21	Platyhelminthes, classification
22	Digenea: <i>Schistosoma</i>
23	Cestodes & Nematodes
24	Annelida
25	Protochordates
26	Fishes & Amphibia
27	Amniotes

4. Teaching and Learning Methods

- 4.1 Lectures: using Laptop & Data show, power point animations, video clips and discussions.
- 4.2 Practical course: includes demonstration of preserved or fresh specimens or photographs of rare specimens, museum specimens for different animals as well as microscopic slides during the semester.
- 4.3 Writing scientific essays: Students activities include the use of the library and internet resources for study and writing scientific essays.
- 4.4 Brain storming group discussion.

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion	degree
Written Examination	3 hours exam.	At the end of the year	60 %	36
Oral Assessment	-	-	0%	
Practical Examination	2hrs	Mid-April	20 %	12
Semester work	1hr	During the year	20 %	12

6. List of references

- Andersen DT (ed) 2001. Invertebrate Zoology, 2nd Ed. Oxford University Press
- Brusca RC and Brusca GJ 2003. Invertebrates, 2nd Ed. Sinauer Associates, Sunderland, Massachusetts.
- Purves WK, Sadava D, Orians GH and Heller HC 2003. Life. The science Biology, 7th ED. Sinauer Associates Inc. Freeman and Co, USA.
- Ruppert EE and Barnes RD 1994. Invertebrate Zoology, 6th Ed. Saunders College Publishing.

- Soliman GN 2006. Invertebrate Zoology. The Mideastern invertebrate fauna. Part1: The noncaelomates 2 nd Ed. The Palm Press Cairo.
-
- *Course notes:* Principals of Animal Diversity (Invertebrates): Lecture Notes. Authorized by Zoology Department.
- Practical Notes on Animal Diversity (Invertebrates): Authorized by Zoology Department.
- Atlas of Animal Diversity (Invertebrates): First Year Students. Authorized by Zoology Department - Faculty of Science - Tanta University, Egypt
- *Essential Books:* Hickman, C.P.; Roberts, L. S. & Larson, A. (2003): Animal Diversity, 3rd. ed., McGraw-Hill Higher Education, Boston, USA, 447 pp.
Soliman, G.N. (2006): Invertebrate Zoology. The Mideastern Invertebrate Fauna. Part I: The Noncoelomates, 2nd. ed., the Palm Press, Cairo, Egypt, 366 PP

Web sites: General Web sites

- 1) Animal Kingdom Web site <http://www.biologybrowser.org/>
- 2) Porifera Web site <http://www.ucmp.berkeley.edu/porifera>
- 3) Cnidaria Web site <http://www.ucmp.berkeley.edu/cnidaria>

7. Facilities required for teaching and learning

- Lecture hall (bench) or rooms in the Faculty. Laptop & Data show projector for presentations, as well as overhead projector & transparence sheets.
- Well equipped laboratories, preserved specimens, dry or wet, living specimens, set of slides, binocular microscopes.

	Course Coordinator	Head of Department
Name	Prof. Dr Nahla E. Omran	Prof. Nabil el fiky
Name (Arabic)	أ. د. نهلة عمران	أ. د. نبيل كمال الفقى
Signature		
Date	9/2018	9/2018

Department: Zoology and Genetics

Contents	KU										I						P					T
	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	b1	b2	b3	b4	b5	b6	c1	c2	c3	c4	c5	d
Histology: Types of microscopes and structure of eukaryotic animal cell.	✓										✓						✓					
Structure and function of living cytoplasmic organelles, plasma membrane and nucleus.	✓										✓						✓					
Basic tissue types (epithelial, connective, muscular and nervous tissues).	✓										✓						✓					
Genetics: Introduction and tools of genetic engineering			✓									✓										
Methods of genetic engineering of cells.			✓	✓								✓										
Methods of genetic engineering of organisms: 1. Transgenic plants and animals.			✓	✓								✓										
Application of biotechnology.			✓	✓								✓										
Physiology: Musculoskeletal systems.		✓											✓					✓				
Cardiovascular system and the heart.		✓											✓					✓				
Body fluids and the kidneys		✓											✓					✓				
Respiratory system and Gas transport.		✓											✓					✓				
Gastrointestinal function.		✓											✓					✓				
Taxonomy: What is taxonomy, why we classify an organism, how we make a classification, what is the scientific name					✓									✓	✓	✓						
Protozoa characters, classification, <i>Trypanosoma</i> , <i>Leishmania</i> , <i>Trichomonas</i>						✓	✓	✓	✓					✓	✓	✓			✓	✓	✓	
Parasitic Amoeba, <i>Balantidium coli</i>						✓	✓	✓	✓					✓	✓	✓			✓	✓	✓	
Apicomplexa, <i>Malaria</i>						✓	✓	✓	✓					✓	✓	✓			✓	✓	✓	
Porifera & Cnidaria						✓	✓	✓	✓	✓				✓	✓	✓			✓	✓	✓	
Periodical exam 1, research activity																						✓
Platyhelminthes, classification						✓	✓	✓	✓					✓	✓	✓			✓	✓	✓	

Digenea: <i>Schistosoma</i>						✓	✓	✓	✓					✓	✓	✓			✓	✓	✓	✓
Cestodes& Nematodes						✓	✓	✓	✓					✓	✓	✓			✓	✓	✓	✓
Annelida																						
Protochordates						✓	✓	✓	✓					✓	✓	✓			✓	✓	✓	✓
Fishes& Amphibia						✓	✓	✓	✓					✓	✓	✓			✓	✓	✓	✓
Amniotes						✓	✓	✓	✓					✓	✓	✓			✓	✓	✓	✓



Course Specification

Course Title	General Anatomy
Course Code	TDEN 00:04
Academic year	2018- 2019
Coordinator	Prof. Dr. Mona Attia
Teaching Staff	Prof. Dr. Mona Attia – Prf. Dr. Amal Mahdy- Prof. Dr. Maisa Fahmy- Prof. Dr. Manal El Bermawy - Prof.Dr. Doaa Heeba
Branch/ Level	Preparatory year
Semester	First& Second Semesters
Pre- Requisite	B.D.S
Course Delivery	Lecture 2x 24 h lectures
	Practical 2x 24 h practical lessons
Parent Department	Department of Human Anatomy& Embryology- Faculty of Medicine – Tanta University
Date of Approval	Faculty Council on: 19/9/2018

1. Overall Course Aims

The aims of this course are to:

- Acquire a basic general knowledge concerning the normal anatomical structure of the human body.
- Develop appropriate ethical and professional education necessary for dealing with cadavers.

2. Intended learning outcomes (ILOs):

A- Knowledge and understanding:

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

a1. Explain the basic anatomical terminology and describe the basic anatomical structures of the different systems in the human body (Muscular, skeletal, joints, respiratory, cardiovascular, digestive, lymphatic, urinary, genital, endocrine and nervous systems).

B- Intellectual skills

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

b1. Determine the different anatomical surface markings and the course of the internal structures (vessels, nerves and organs)

- b2. Interpret and analyse clinical findings in correlation with the anatomical facts.
- b3. Express systemic thinking and personal judgement of MCQ questions

1

C- Professional and practical skills

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

- c1. Perform cadaveric and bone examination to identify different structures and organs of the body.
- c2. Draw and label the different anatomical structures

D- General transferable skills (attitude and communication skills)

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

- d1. Work collaboratively in a team with other colleagues and know when and how to ask for senior consultation.
- d2. Maintain a professional image in manner, dress, speech and interpersonal relationships that is consistent with the accepted contemporary medical profession standards.
- d3. Maintain honesty and integrity in all interactions with teachers and colleagues.
- d4. Manage time and resources effectively and evaluate their own work and that of others using constructive feedback.

3- Topics (Contents of the course)

Week	Topics
1	Anatomical terminology
2	Skin & fascia
3	Muscular system
4	Skeletal muscles
5	Skeletal system
6	Skeleton
7	Skull and teeth eruption
8	Thoracic cage & vertebral column
9	Appendicular skeleton
10	Joints (Fibrous & cartilaginous)
11	Synovial joints
12	Respiratory system
13	Cardiovascular system (Heart)
14	Cardiovascular system (Arteries & veins)
15	Lymphatic system & Abdominal regions
16	Digestive system
17	Digestive glands & biliary apparatus
18	Urinary system

19	Male genital system
20	Female genital system
21	Endocrine glands
22	Nervous system (brain& brain stem)
23	Spinal cord & Autonomic nervous system
24	Sense organs & cranial nerves

2

4-Teaching and learning methods

4.1 Lectures for acquisition of knowledge: 2 hours/week.

4.2 Practical classes: 2 hours/ week; including demonstration in the dissecting rooms, museum jars, plastic models and TV circuit.

5-Student Assessment:

a) Methods used

1- Semester work exam: Short essay questions, MCQ and complete questions to assess knowledge and understanding (a1) and intellectual skills (b1, b3)

3- Practical log book to assess knowledge and understanding (a1), practical skills c2 and general skills d1.

4- Final written examination to assess knowledge and understanding (a1), intellectual skills (b1, b3) and professional and practical skills c2.

5- Final oral examination to assess knowledge and understanding (a1), intellectual skills b3, general transferable skills d2, d3

6- Final practical examination to assess knowledge and understanding (a1), professional and practical skills c1 and general transferable skills d2, d3, d4.

b) Assessment schedule

Assessment	Assessment length	Schedule	Proportion
1- Semester work exam	1 hour	1 st week of January	17.5%
2- only formative exam	-----	During lectures	-----
3- Final Practical exam & practical log book	20 minutes		15%
4- Final year examination:		End of academic year	
- Written exam	2 hours		37.5 %
- Oral exam	10 minutes		30%

c) Weighing of assessments

Semester work examination	17.5% (14 marks)
Practical examination & practical logbook	15 % (12 marks)
Final written examination	37.5% (30 marks)
Oral examination	30% (24 marks)
Total	100% (80 marks)

6- List of references

6.1 Course notes

Hand outs of lectures (either soft or hard copies)

6.2 Text book

Human anatomy series produced by the staff members of the Human Anatomy & Embryology Department, Faculty of Medicine, Tanta University:

- General Anatomy
- Practical General Log Book for Preparatory (Pre-dental) year.

6.3 Recommended books

- Gray's Anatomy: The Anatomical Basis of Clinical Practice, Elsevier; 41 edition (October 9, 2015)
- Clinical anatomy by regions (Richard S. Snell) : 9th edition, Lippincott Williams & Wilkins, 2011
- Cunningham's manual of practical anatomy: 15th edition, Oxford University Press reprinted 2000
- Text book of General Anatomy. By Rawlani, S. & Rawlani, S. Jaypee Brothers Medical publishers. 2011

6.4 Periodicals and web sites

- British journal of anatomy
- Journal of clinical anatomy
- www.innerbody.com
- www.instantanatomy.net

7-facilities for teaching and learning resources

- Dissecting rooms (cadavers, bones)
- Museum (jar specimens, plastic models)
- Internal TV circuit for displaying anatomy video films and CD movies
- Library (delivering text books and computers for achieving anatomy web sites)
- Optical zoom camera for assessment of bones and models

4

	Course Coordinator	Head of Department
Name:	Prof. Dr. Mona Attia	Prof. Magdy Saeed Mostafa
Name(Arabic):	أ.د. منى محمد عطية	أ.د. مجدى سعيد مصطفى
Signature:		
Date:	9/2018	9/2018

5.5 Course contents – Course ILOs Matrix

Tanta University
Faculty of Medicine
Department of Anatomy&

Embryology–

Course Code / Course Title: TDEN 00:04 General Anatomy

Course Contents	Course outcomes ILOs									
	Knowledge and Understanding	Intellectual			Practical		Transferable			
	A1	B1	B2	B3	C1	C2	D1	D2	D3	D4
Anatomical terminology	•	•		•	•	•	•			
Skin& fascia	•		•		•	•		•		
Muscular system	•	•			•	•			•	
Skeletal muscles	•				•	•				•
Skeletal system	•		•		•	•		•		
Skeleton	•	•	•		•	•				
Skull and teeth eruption	•		•		•	•		•		

Course Contents	Course outcomes ILOs									
	Knowledge and Understanding	Intellectual			Practical		Transferable			
	A1	B1	B2	B3	C1	C2	D1	D2	D3	D4
Thoracic cage& vertebral column	•	•			•	•				
Appendicular skeleton	•				•	•	•			
Joints (Fibrous&cartilagenous)	•	•			•	•	•			
Synovial joints	•				•	•		•		
Respiratory system	•		•		•	•				
Cardiovascular system (Heart)	•	•			•	•			•	
Cardiovascular system (Arteries& veins)	•	•	•		•	•				•
Lymphatic system & Abdominal regions	•	•			•	•			•	
Digestive system	•	•			•	•				
Digestive glands& biliary apparatus	•	•	•		•	•		•		
Urinary system	•		•		•	•			•	
Male genital system	•	•	•		•	•				•
Female genital system	•	•	•		•	•	•			

Course Contents	Course outcomes ILOs									
	Knowledge and Understanding	Intellectual			Practical		Transferable			
	A1	B1	B2	B3	C1	C2	D1	D2	D3	D4
Endocrine glands	•	•			•	•		•		
Nervous system (brain& brain stem)	•	•	•		•	•				•
Spinal cord & Autonomic nervous system	•		•		•	•			•	
Sense organs & cranial nerves	•		•		•	•	•			

Course coordinator: Prof. Dr. Mona Attia

Head of Department: Prof. Dr. Magdy Saeed Mostafa



Course Specification

Course Title	General Histology	
Course Code	TDEN 00:04	
Academic Year	2018-2019	
Coordinator	Prof.Naglaa Sarhan	
Teaching Staff	Histology staff members	
Branch / Level	Preparatory year	
Semester	all the academic year	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	25×2h lectures
	Practical	25×2h practical section
Parent Department	Histology Department, Faculty of Medicine, Tanta University	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- provide students with knowledge concerning the basic histological structure and ultrastructure of the eukaryotic cell with correlation to biological cellular activities and teach the student the normal histological structure of different tissues of human body in addition to some of its systems, and how to identify them under the microscope, with functional and clinical correlation whenever possible.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1.** Recognize the basic steps in preparing specimens for light and electron microscopy.
- a2.** Define the structure and functions of the cytoplasmic components.
- a3.** Identify the subunits of each nuclear component and their role in its function.
- a4.** Explain the process of cell division and identify the activities that control the transition from.
- a5.** Recognize the structural characteristics of the four basic tissue types.
- a6.** Describe the functional capabilities of each tissue type and relate them to the structure.

- a7. Describe different blood elements and their development.
- a8. discuss the basic histological structure of some systems (vascular & lymphatic)

B. Intellectual skills:

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

- b1. Select appropriate methods to reveal specific microscopic features of cells and tissues.
- b2. Predict which structures are present in a cell from its function.
- b3. Relate the composition of each tissue type to its specific functions.
- b4. Predict the intracellular or tissue components likely to be involved in a functional deficit.

C. Professional and practical skills:

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

- c1. Name the instruments and techniques used to prepare and study histological specimens.
- c2. Use the microscope efficiently.
- c3. Handle the histological glass slides and examine them using the maximum microscopic facilities.
- c4. Recognize different cellular and intracellular components in electron photomicrographs
- c5. Recognize and differentiate between types of cells and tissues in histological slides.
- c6. Draw and label the structures they have seen in electron photomicrographs and under light microscope during practical classes.

D. General and transferable skills:

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

- d1. Appreciate the importance of life long learning.
- d2. Use the sources of biomedical information available to remain current with advances in knowledge and practice.
- d3. Communicate actively with his colleagues as well as the employees and staff members.

3. Course Contents

Topics	Hours for lectures	Hours for practical
1-Introduction and microtechniques	2	2
2- Cytology • Cell membrane-RER-Ribosomes • Golgi-Mitochondria-peroxisomes • Cytoskeleton • Nucleus	Total=10 2 2 2 4	Total=10 2 2 2 4
3- Epithelium Simple epithelium and Stratified epithelium Cell junctions and Special cells	Total= 4 2 2	Total= 4 2 2
4- Connective tissue • C.T cells • C.T ground substance • Adipose tissue	Total= 6 2 2 2	Total= 6 2 2 2
5- Cartilage	2	2
6- Bone	4	4
7- Muscle tissue	4	4
8- Nervous tissue	4	4
9- Blood	4	2
10-lymphatic	4	2
11-Blood vessels	2	2
12-Revision	4	10
Total	50	50

4. Teaching and Learning Methods

4.1- Lectures (25 lectures, each is 2 hours/week for 25 weeks)

4.2- Practical sections (25 sections, each is 2 hours/week for 25 weeks)

5. Student Assessment:

Assessment Method	Assessment Length	Schedule	Marks
Written Examination	3 hours	At the end of the year	48 marks
Oral Assessment	15 min	At the end of the year	24marks

Semester work	1 hour	Written examination held once at January	24 marks
Practical examination	1 hour	At the end of the year	24 marks

6. List of references

6.1 Course notes

6.2-Essential books (text books):

-Department Books Practical Book

6.3- Recommended books:

- Basic histology, Junqueira, L.C. 12th ed. 2015
- Atlas of histology: Di Fiore, 2015
- Functional Histology (Wheater's) Text & Atlas of Histology, 2014

6.4- Periodicals, Web sites, ... etc

-www.wikipedia.org/wiki/Histology - www.histology-world.com

7. Facilities required for teaching and learning

1-Faculty Lecture halls

2-One equipped lab.

3-Faculty library can be used for projects and textbooks

Course Coordinator		Head of Department
Name	Prof.Naglaa Sarhan	Prof.Naglaa Sarhan
Name (Arabic)	أ. د. نجلاء إبراهيم سرحان	أ. د. نجلاء إبراهيم سرحان
Signature		
Date	Λ/9/2018	Λ/9/2018

5.5 Course contents- course ILOs Matrix

Course code/ course Title : TDEN 00:04. General Histology

Course Title/		Course outcomes																			
		Knowledge and understanding							Intellectual				Practical						Transferable		
	A 1	A 2	A 3	A 4	A 5	A 6	A7	A 8	B1	B2	B3	B4	C1	C2	C3	C4	C5	c6	D1	D2	D3
1-Introduction and microtechniques	√			√					√	√	√	√	√	√	√	√	√	√	√	√	√
2- Cytology - Cell membrane- RER- Ribosomes - Golgi- Mitochondria- peroxisomes - Cytoskeleton - Nucleus	√	√	√	√					√	√	√	√	√	√	√	√	√	√	√	√	√
3- Epithelium Simple epithelium and Stratified epithelium Cell junctions and Special cells	√				√	√			√	√	√	√	√	√	√	√	√	√	√	√	√
4- Connective tissue - C.T cells - C.T ground substance - Adipose tissue	√				√	√			√	√	√	√	√	√	√	√	√	√	√	√	√
5- Cartilage	√								√	√	√	√	√	√	√	√	√	√	√	√	√
6- Bone	√								√	√	√	√	√	√	√	√	√	√	√	√	√
7- Muscle tissue	√				√				√	√	√	√	√	√	√	√	√	√	√	√	√
8- Nervous tissue	√				√				√	√	√	√	√	√	√	√	√	√	√	√	√
9- Blood	√						√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
10-lymphatic	√						√	√	√	√	√	√	√		√	√	√	√	√	√	√



Course Specification

Course Title	Dental morphology	
Course Code	TDEN 00:05	
Academic Year	2018-2019	
Coordinator	Prof. Ragia Elprince Nour ElDeen	
Teaching Staff	- Prof. Naglaa Nagy. - Prof. Olfat Gaballah. - Prof. Hasnaa Fouad. - Dr. Souzan Anwar. - Dr. Doaa Teima. - Dr. Sarah Yasser. - Prof. Heba El-Tokhy. - Prof. Ragia Elprinse - Dr. Gehan Ahmed. - Dr. Reda Gaber.	
Branch / Level	preparatory year	
Course Delivery	Lecture	1 h lecture/ week
	Practical	3 hrs practical/ week
Parent Department	Oral biology department	
Date of Approval	Faculty Council on:19/ 9/ 2018	

1. Course Aims

The aims of this course are to:

This course is designed to provide the student with the basic elements of tooth morphology, physiology and occlusion as an essential pre-requisite for other dental courses. The course comprises lectures and practical sessions. The later comprises carving the permanent teeth in natural form and size using blue wax, it also comprises drawing of all permanent teeth. This is designed to reinforce the theoretical knowledge gained in the lectures, as well as contribute towards the development of manual dexterity, a skill which is essential in the practice of dentistry.

The course layout the foundation for developing didactic and technical artistic skills by the dental student and use these knowledge and skills to his clinical performance.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a.1. Identify, the anatomical landmarks, nomenclature of the oral cavity and all primary and permanent teeth.
- a.2. Describe the anatomy of primary and permanent teeth and the importance of tooth form in protection of the periodontium.
- a.3. Recognize the shape and size of the pulp chambers and root canals of primary and permanent teeth.

- a.4. Relate the chronology of each primary and permanent teeth.
- a.5. Identify the occlusion of both primary and permanent teeth.

B. Intellectual skills:

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

- b 1. Differentiate between primary and permanent teeth.
- b 2. Estimate the age of Jaw from the present teeth.
- b 3. Analyze normal occlusion relationships in primary and permanent teeth.
- b 4. Correlate between teeth chronology& anatomy and preparation for their extraction.
- b 5. Compare between dental anatomy & pulp morphology and planning for operative dentistry, crown and bridge preparation and endodontic treatment

C. Professional and practical skills:

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

- c 1. Carve normal sized permanent teeth in blue wax.
- c 2. Draw different aspects of individual permanent teeth.
- c 3. Demonstrate the morphological criteria of each tooth.

D. General and transferable skills:

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

- d 1. Use computer technology in presentation and analysis of data
- d 2. Work in teams to acquire the skills of locating, analyzing and solving problems

3. Course Contents

Week	Topics
1,2,3	Introduction
4	Permanent maxillary incisors
5	Permanent mandibular incisors
6	Permanent maxillary canine
7	Permanent mandibular canine
8,9	Permanent maxillary premolars
10,11	Permanent mandibular premolars
12	Primary anterior teeth
13	Chronology
14,15	Permanent maxillary molars
16,17	Permanent mandibular molars
18,19	Physiologic tooth form
20	Geometric outline of teeth
21,22	Primary posterior teeth
23,24,25	Occlusion of the primary & permanent teeth

4. Teaching and Learning Methods

4.1. Lectures.

4.2. Practical demonstrations

4.3. Seminars performed by the students.

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Degree
Written Exam	3h to assess ILO a1- a2-a3-a4-a5, b1-b2-b3- b4-b5.	According to college general exam schedule.	60%
Practical Exam	2h to assess ILO c1-c2-c3.	At the end of the course	20
Continuous assessment	to assess ILO a1-a2-a5, b1-b2, c2, d1-d2.	At the end of each section of the course	20
Total			100%

6. List of references

Essential Books: Wheeler's Dental Anatomy, Physiology and Occlusion by Ash & Nelson, Saunders; 9th edition (2010)

Web sites: Dental anatomy by British Dental Association
http://www.3dmouth.org/4/4_intro.cfm

7. Facilities required for teaching and learning

- ☐ Generic resources, such as the library, video films and CDs
- ☐ Electronic or hard copies of past exam papers and example assessments
- ☐ Computer aided data show.

Course Coordinator		Head of Department
Name	Prof. Ragia Elprince Nour ElDeen	Prof. Heba Mohamed Eltokhey.
Name (Arabic)	أ. د / راجية البرنس	أ. د / هبة محمد الطوخي
Signature		
Date	5/9 /2018	5/9/2018

تم اعتماده في مجلس قسم بيولوجيا الفم سبتمبر ٢٠١٨

Course contents – Course ILOs Matrix

University: Tanta

Faculty: Dentistry

Department: Oral Biology

Course Code / Course Title: TDEN 00:05 / Dental Anatomy

Course Contents	Course ILOs															
	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	C1	C2	C3	D1	D2	
1. Introduction	✓															
2. Permanent maxillary incisors		✓	✓						✓	✓	✓	✓	✓	✓	✓	
3. Permanent mandibular incisors		✓	✓						✓	✓	✓	✓	✓	✓	✓	
4. Permanent maxillary canine		✓	✓						✓	✓	✓	✓	✓	✓	✓	
5. Permanent mandibular canine		✓	✓						✓	✓	✓	✓	✓	✓	✓	
6. Permanent maxillary premolars		✓	✓						✓	✓	✓	✓	✓	✓	✓	
7. Permanent mandibular premolars		✓	✓						✓	✓	✓	✓	✓	✓	✓	
8. Permanent maxillary molars		✓	✓						✓	✓	✓	✓	✓	✓	✓	
9. Permanent mandibular molars		✓	✓						✓	✓	✓	✓	✓	✓	✓	
10. Primary anterior teeth		✓	✓			✓			✓	✓				✓	✓	
11. Primary posterior teeth		✓	✓			✓			✓	✓				✓		
12. Chronology				✓			✓		✓					✓		
13. Geometric outline of teeth														✓		
14. Physiologic tooth form														✓		
15. Occlusion of the primary teeth					✓			✓					✓	✓		
16. Occlusion of the permanent teeth					✓			✓					✓	✓		

Course coordinator: Prof. Ragia Elprince Nour ElDeen

Head of Department: Prof. Heba Eltokhey.

Course Specification

Course Title	Basic Dental Biomaterials I
Course Code	TDEN 00:06
Academic Year	2018/2019
Coordinator	Dr. Eman El-Bahrawy
Teaching Staff	Dr.Manal El-Ebiary -Dr. Usama Abd- Alkareem- Dr.Hend El-kafrawy -Dr.Eman El-Bahrawy – Dr. Samy Elsafty
Branch / Level	Pre-dental year of BDS (preparatory year)
Course Delivery	Lecture : 25 x 1 h lectures
Parent Department	Dental Biomaterial department
Date of Approval	Faculty of council on 19/9/2018

1. Course Aims

The aims of this course are to:

- provide the students with enough knowledge about the principles of dental materials so they can understand the rationale for their use and have the opportunity to apply their knowledge through clinical and laboratory procedures.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1. recognize the mechanical and physical basics essential for handling of the dental biomaterials.
- a2. list the limitations and the durability of every material in an objective dental and social perspective
- a3. identify the proper material for a specific dental treatment judiciously and in a well-considered manner

B. Intellectual skills:

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

- b1. consider the possibilities of different problems regarding improper selection of the material
- b2. solve the problems associated with side-effects of the materials.
- b3. select the best innovative dental techniques, materials and tools for each specific situation.

C. Professional and practical skills:

D. General and transferable skills:

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

- d1. communicate with colleagues and staff in a team work.
- d2. present different learning resources to get knowledge and information.

3. Course Contents

Week	Topics
1,2,3,4	Introduction & structure of matter & Physical properties of dental materials
5,6,7,8	Mechanical properties of dental materials
9, 10	Hardness & Viscoelasticity
11,12,13	Metals & alloys
14	Corrosion
15	Adhesion
16	Mid-term exam
17,18	Polymers and polymerization
19	Gold alloys
20,21	Cobalt-chromium and titanium
22	Wrought dental alloys
23,24	Investment
25	Casting
26	Joining of metals

4. Teaching and Learning Methods

4.1 Lectures (power point presentation).

5. Student Assessment

Assessment Method	Assessment Length	ILOS covered	Schedule	Marks	Proportion
Written Examination	3 hours	a1-a3,b1	At the end of the year	36 marks	60%
Oral Assessment	15 min	a1-a3, b1-b3	At the end of the year	12marks	20%
Semester work	30 minutes	a1-a3	Written examination held 1 time/year	12 marks	20%

6. List of references:

Course notes: Handouts and power point presentation

Essential Books: (Textbooks):

1. Richard Van Noort. Introduction to Dental Materials (fourth edition) 2013.
2. McCabe JF. Applied Dental Materials. 8th ed. Blackwell Science, London, 2008.

Web sites: PubMed homepage:<http://www.ncbi.nlm.nih.gov/pubmed>

It is a Medline search in the international scientific journals and Full text original articles and reviews of some scientific journals (e. g. Dental Materials journal) are available through the Tanta University internet access at the Faculty of Dentistry.

7. Facilities required for teaching and learning:

- Equipment are required to qualify the research work of the students.
- A laboratory is required for proper students training.
- Enough amounts of dental materials are required for students' exercises.
- A Video, a television and a data-show are required inside the laboratory to show the students the practical work during the laboratory sessions.

	Course Coordinator	Head of Department
Name	Dr.Eman El-Bahrawy	Prof.Dr. Manal El-Ebiary
Name (Arabic)	د. ايمان البحر اوي	أ. د. منال الابياري

Signature

تم الاعتماد في مجلس القسم بتاريخ 2018/9/6



5.5 course contents - course ILOs Matrix

University: Tanta.

Faculty: Dentistry.

Department: Dental Biomaterials.

Course code /course Title: TDEN 00:06. Basic Dental Biomaterials I.

Course contents	course outcomes							
	Knowledge and Understanding			Intellectual			Transferable	
	A1	A2	A3	B1	B2	B3	D1	D2
Introduction & structure of matter & Physical properties of dental materials	√		√			√	√	√
Mechanical properties of dental materials	√	√	√			√	√	√
Hardness & Viscoelasticity		√	√				√	√
Metals & alloys			√			√	√	√
Adhesion			√				√	√
Corrosion		√	√	√	√	√	√	√
Polymers and polymerization			√	√	√	√	√	√
Gold alloys			√	√		√	√	√
Cobalt-chromium and titanium		√	√	√		√	√	√
Investment			√			√	√	√
Casting			√	√		√	√	√
Wrought dental alloys		√	√	√		√	√	√
Joining of metals			√			√	√	√

Course coordinator:
Dr. Eman El-Bahrawy

Head of Department:
Prof. Dr. Manal El-Ebiary



Course Specification

Course Title	English Language and Medical Terminology	
Course Code	TDEN 00:07	
Academic Year	2018-2019	
Coordinator	Dr. Soaad Mohamed Negm	
Teaching Staff	Dr. Soaad Mohamed Negm	
Branch / Level	Preparatory (pre-dental) year	
Semester	First and second	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	2 h x 24 lectures
	Practical	—
Parent Department	Department of Foreign Languages at Faculty of Education	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

develop the dental students' knowledge of the four basic skills of the English language by studying a variety of topics (mainly professional situations in English), distinguish syntax; comprehension: questions interpretation and implication, give examples of the medical terminology students are going to use in their professional life and practice medical terminology in oral sessions.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1. Use grammatically right sentences.
- a2. Define basic Medical Terminology.
- a3. Recognize the transcription of the English words.
- a4. Recognize the British civilization.

B. Intellectual skills:

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

- b1. Compare between the British and Egyptian traditions.
- b2. Promote international understanding.

C. Professional and practical skills:

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

- c1. Know how to express his/her ideas clearly and correctly in English.
- c2. Apply English in daily life
- c3. Use English medical terms in professional communication

English Language and Medical Terminology

c4. Write structurally correct paragraphs.

D. General and transferable skills:

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

d. Demonstrate stimulation, association and assimilation.

3. Course Contents

Week	Topics
1	Reading comprehension - listening
2	Medical dialogues - transcription
3	Kinds of English sentences
4	Common grammatical mistakes
5	Writing a paragraph
6	How to write an essay
7	Medical terminology
8	Oral session
9	Medical terminology
10	Listening
11	Oral session
12	Reading comprehension - transcription
13	Medical Idioms
14	Reading comprehension - listening
15	Medical terminology
16	General Idioms
17	Vocabulary exercises
18	Oral session
19	Capitalization
20	Preposition
21	Medical dialogues
22	Listening
23	Idioms - transcription
24	Reading comprehension - listening

4. Teaching and Learning Methods

- 3.1 Lectures
- 3.2 Dialogues
- 3.3 Writing essays
- 3.4 Presentations
- 3.5 Discussions

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion
Written Examination	2 hours	At the end of the year	100%(50 degrees)
Oral Assessment	-----	-----	-----
Practical Examination	-----	-----	-----
Semester work	-----	-----	-----

6. List of references

- *Course notes*

- *Essential Books:* Main readings will be selected from the following books and textbooks but the course instructor retains the right to use other materials:

Quirk, R. & S. Greenbaum, (1990). *A Students Grammar of the English language*, Longman.

Huddleston, R. D. & Pullum, G. K. (2005). *A Student's Introduction to English Grammar*. Cambridge: CUP.

Riđanović, Midhat (2007). *Praktična engleska gramatika (A Practical English Grammar)*. Sarajevo: TDK Šahinpašić. (selections)

Baker, M. C. (2003). *Lexical Categories: Verbs, Nouns, and Adjectives*. Cambridge: Cambridge University Press

Aarts, B. & McMahon, A. (eds) (2006). *The Handbook of English Linguistics*. Wiley-Blackwell.

+ instructor - selected readings, exercises and other materials that develop and test the students' core language skills.

- *Web sites:* <http://www.usingenglish.com/>

<http://www.britishcouncil.org/>

<http://linguistlist.org/>

7. Facilities required for teaching and learning

- 7.1. Blackboard
- 7.2. Course notes
- 7.3. Flip charts
- 7.4. Essential books (Textbooks)
- 7.5. Recommended books
- 7.6. Data show
- 7.7. Periodicals, Web sites, etc

	Course Coordinator	Head of Department
Name	Dr. Soaad Mohamed Negm	Dr. Eman Sehsah
Name (Arabic)	د. سعاد محمد نجم	د. ايمان صحصاح
Signature		
Date	9/2018	9/2018

5.5 course contents - course ILOs Matrix

University: Tanta.

Faculty: Education.

Department: Foreign Languages.

Course code /course Title: TDEN 00:07. English Language and Medical Terminology.

Course contents	course outcomes										
	Knowledge and Understanding				Intellectual		Practical				Transferable
	a1	a2	a3	a4	b1	b2	c1	c2	c3	c4	d
Reading comprehension - listening			√	√		√		√		√	√
Medical dialogues - transcription		√	√				√		√		√
Kinds of English sentences							√	√			√
Common grammatical mistakes	√									√	√
Writing a paragraph	√		√				√			√	√
How to write an essay	√						√				√
Medical terminology		√	√				√		√		√
Oral session	√						√	√			√
Medical terminology		√	√				√		√		√

Listening	√		√			√	√	√			√
Oral session	√						√	√			√
Reading comprehension - transcription			√	√	√	√					√
Medical Idioms		√	√				√		√		√
Reading comprehension - listening	√		√			√	√	√			√
Medical terminology		√	√				√		√		√
General Idioms			√			√	√			√	√
Vocabulary exercises			√			√	√			√	√
Oral session	√						√	√			√
Capitalization				√		√					√
Preposition				√		√					√
Medical dialogues		√	√				√		√		√
Listening	√		√			√	√	√			√
Idioms - transcription			√				√	√			√
Reading comprehension - listening	√		√			√	√	√			√

Course coordinator:
Dr. Soaad Mohamed Negm

Head of Department:
Dr. Eman Sehsah



First Year

Course Specification

Course Title	Oral Biology		
Course Code	TDEN 01:01		
Academic Year	2018-2019		
Coordinator	Prof. Heba M. El-Tokhey		
Teaching Staff	- Prof. Naglaa Nagy. - Prof. Olfat Gaballah. - Prof . Hasnaa Fouad. - Prof .Heba El-Tokhey. - Dr. Souzan Anwar. - Dr. Gehan Ahmed. - Dr. Doaa Teima. -Dr. Reda Gaber. - Dr. Sarah Yasser.		
Branch / Level	First year		
Course Delivery	Lecture	24 x2	h lectures
	Practical	24 x2	h practical
Parent Department	Oral Biology Department		
Date of Approval	19/9/ 2018		

1. Course Aims

The aims of this course are to:

- Provide the students with detailed information about development, histological structure, function, age changes and clinical significance of the tooth and its supporting tissues; alveolar bone, oral mucosa, salivary glands, maxillary sinus and temporomandibular joints.
- Also, to present comprehensive knowledge about shedding & eruption of teeth and their lymph drainage.
- Describe the development of head that is helpful in understanding the complex events involved in cephalogenesis.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- A.1.** Identify the embryological development and growth of the head including face, jaws and oral tissues.
- A.2.** Record the histological structure of the dental tissues and periodontium.
- A.3.** Define teeth shedding and eruption.
- A.4.** Identify the morphology, histology, and function of the salivary glands.
- A.5.** Identify the macro and microanatomy of the oral mucosa.
- A.6.** Define the anatomy, histology, function and of tempromandibular joint.
- A.7.** Record the anatomy, histology, function and of the maxillary sinus and lymph drainage of teeth.

A.8. Identify the steps of slide preparation for microscopic investigations

B. Intellectual skills:

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

B1.Imagine the embryological development of the face and oral tissues.

B2.Distinguish the histological structure of the tooth and oral tissues.

B3.Compare the histological structures of oral and para-oral tissues in young and old age.

B4.Correlate between each tissue and its clinical consideration

C. Professional and practical skills:

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

C1.Demonstrate the normal histological structure of teeth, oral and para-oral tissues under light microscope.

C2.Demonstrate the electron microscopic features of the teeth and oral tissues.

C3.Illustrate the normal histological features of teeth, oral and para-oral tissues under light microscope.

D. General and transferable skills:

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

D.1. Communicate a range of learning resources such as web sites of oral medicine cases.

D.2. Debate information technology as a mean of communication for data collection and analysis and for self-directed learning.

D.3. Work with other members of the dental team.

3. Course Contents

Week	Topics
1,2	Tooth development
3,4	Enamel
5,6	Dentine
7,8	Cementum
9	Pulp
10,11	Periodontal ligament
12,13,14	Embryology
15	Alveolar bone
16,17	Oral mucosa
18,19	Salivary glands
20	Eruption
21	Shedding
22	Growth of maxilla and mandible
23,24	Temporomandibular joint & Maxillary sinus & Lymph drainage of the teeth and oral tissues

4. Teaching and Learning Methods

- 4.1. Lectures:** Are done in lectures hall by the staff members using computer aided data show.
- 4.2. Practical sessions:** Students are allocated into small groups. The staff members demonstrate the histological structures using labeled diagrams and microscopic slides that is either ground, soft paraffin H&E stained or decalcified H&E stained sections. Students must draw and label every section in the practical workbook.
- 4.3. Seminars performed by the students.**

5. Student Assessment

Written exam:

- | | |
|-----------------------|----------|
| 1. Long essay | 20 Marks |
| 2. Short essay | 15 Marks |
| 3. Complete questions | 20 Marks |
| 4. MCQ Questions. | 10 Marks |

Students' performance:

- | | |
|-----------------------|----------|
| 1. MCQ Mid- Year exam | 20 Marks |
| 2. Project | 5 Marks |
| 3- Practical notes | 5 Marks |

Practical exam:

- | | |
|--|----------|
| 1. Identification of 15 histological slides stained by different types of stains | 30 Marks |
| 2. Identify different electron microscopic photographs. | 5 Marks |
| 3. Draw histological features of different oral tissues. | 5 Marks |

Oral exam: discussion with the internal and external examiners.

Assessment Method	Assessment Length	Schedule	Degree	proportion
Written Exam	to assess A1-A2-A3-A4-A5-A6-A7, B1-B2-B3-B4, C1	Decided by the college general exam schedule	60	40%
Oral Assessment	to assess B1-B2-b3- B4,C2,d1	At the end of the course	20	14%
Practical Exam	to assess A8-C1-C3, D3	At the end of the course	40	26%
Students' performance	to assess A1-A2-A3-A5, B1-B2, C1, D1	At the 14 th week of the course	30	20%

6. List of references

Essential Books:

- Ten Cate's Oral Histology: Development, Structure, and Function by [Antonio Nanci](#) 8th ed., Mosby, 2013.
- Orban's Oral Histology & Embryology. 13th ed. by bhaskar, CBS Publishers & Distributors 2011

Recommended books

- Oral development and histology by [James K. Avery](#). Thieme Medical Publishers; 3rd edition , 2001
- Oral Anatomy, Histology and Embryology by [Berkovitz](#), [Holland](#) and Moxham Mosby; 4 edition, 2009
- A Colour Atlas and Textbook of Oral Anatomy by [Berkovitz](#), [Holland](#) & [Moxham](#). Wolfe Medical Publications 1978

Web sites:

- Archives of Oral Biology, Elsevier Ltd.
<http://www.sciencedirect.com/science/journal/00039969>
- Oral Biology Courses on the Web
<http://www.uic.edu/classes/orla/>
<http://www.lab.anhb.uwa.edu.au/mb140/>

7. Facilities required for teaching and learning

- Generic resources, such as the library, video films and CDs
- Electronic or hard copies of past exam papers and example assessments
- Light microscopes in the lab.
- Computer aided data show.

	Course Coordinator	Head of Department
Name	Prof. Heba M. Eltokhey	Prof. Heba Eltokhey
Name (Arabic)	أ.د/ هبة الطوخي	أ.د/ هبة الطوخي
Signature		
Date	5/9/2018	5/9/2018

تم اعتماده في مجلس قسم سبتمبر ٢٠١٨

Course contents – Course ILOs Matrix

University:Tanta
Faculty:Dentistry
Department:Oral BiologyCourse

Code / Course Title: TDEN 01:01/ Oral Biology 2018-2019

Course contents		Course ILOs																	
	A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	B4	C1	C2	C3	D1	D2	D3	
1. Embryology	✓								✓				✓	✓	✓	✓	✓		
2. Tooth development	✓							✓	✓				✓	✓	✓	✓	✓	✓	
3. Enamel	✓	✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4. Dentin	✓	✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5. Cementum	✓	✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6. Pulp	✓	✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7. Periodontal ligament	✓	✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
8. Oral mucosa	✓				✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9. Salivary glands	✓			✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
10. Alveolar bone	✓	✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
11. Eruption			✓													✓	✓		
11. Shedding			✓													✓	✓		
12. T.M.J	✓					✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
13. Maxillary sinus	✓						✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
14. Lymph drainage of the teeth and oral tissues							✓									✓	✓		
15. development & growth of maxilla and mandible	✓								✓							✓	✓		

Course coordinator:
Prof. Heba El-Tokhey

Head of Department:
Prof. Heba El-Tokhey



Course Specification

Course Title	General pathology	
Course Code	TDEN 01:02	
Academic Year	2018-2019	
Coordinator	Prof. Dr. Azima Gamal Noseir	
Teaching Staff	Prof. Dr. Azima Gamal Noseir- Prof. Dr Asia mahfoz	
Branch / Level	First year	
Semester	First and second semester	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	2 h lectures /week
	Practical	2 h practical /week
Parent Department	Department of pathology/ Faculty of Medicine	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- support acquisition of basic knowledge of general pathology that is essential for the clinical rounds preparing the students for their subsequent clinical careers.
- familiarize students with the basic disease patterns and their underlying mechanisms within the specific organ system..

2. Intended Learning outcomes (ILOs)

a. Knowledge and understanding:

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

1. describe different disease processes encountered their causes (etiology), and how the disease develops in response to the etiological agents (pathogenesis).
2. discuss characteristic gross and microscopic pictures of different pathologic lesions within specific organ system and the associated functional disturbances.
3. determine the fate and complications of different disease processes.

b. Intellectual skills:

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

1. analyze various gross and microscopic pathologic data resulting from the disease process.

c. Professional and practical skills:

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

- c1. recognize different diagnostic pathological tools.
- c2. describe the pathologic pictures of different disorders based on gross and microscopic pictures aiming at reaching a correct diagnosis.

d. General and transferable skills:

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

- d1. express freely and adequately themselves by improving their descriptive capabilities and communication skills.
- d2. respond properly when solving problems.
- d3. advocate the basic concepts of dealing with neoplastic patients.
- d4. apply appropriate professional attitudes, communication and problem solving skills.

3. Course Contents

Week	Topics
1,2,3,4	1. Inflammation and repair
5,6,7	2. Cell injury, degeneration, necrosis & gangrene
8,9,10	3. Circulatory disturbances
11,12,13,14	4. Granulomas
14,15	5. Immunity
16,17	6. Ionizing radiation
18,19	7. Growth disturbances
20,21,22,23,24	8. Neoplasia

4. Teaching and Learning Methods

- I. Lectures in general pathology: 2 hours/week.
- II. Practical sessions: museum: 2 hours/ week.

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion
Written Examination	3 hours exam	At the end of the year	60%
Oral Assessment	15 mins	At the end of the year	10%
Practical Examination	2 hours	At the end of the year	10%
Semester work	1 hour	At the end of the first term	20%

6. List of references

Course notes: general pathology staff members' department book and practical notes.

Essential Books:

Kumar, Cortan and Robbins basic pathology (2010).

Web sites:

<http://www.pathmax.com>

<http://www.medlib.med.utah.edu/web/path/labs/labmenu.html>.

<http://www.medscape.com/pathologyhome>

<http://www.qwumc.edu/jdepl/path/2f.htm>

7. Facilities required for teaching and learning

1. Computer and data show
2. Museum
3. Library

We certify that all of the information required to deliver this course is contained in the above specification and will be implemented.

Course Coordinator		Head of Department
Name	Prof. Dr. Azima Gamal Noseir	Prof. Dr. Maha Shamlola
Name (Arabic)	أ. د. عزيمة جمال نصير	أ. د. مها شملولة
Signature		
Date	3/9/2018	3/9/2018

Course ILOs versus course matrix										
	ILOs									
	a			b	c		d			
	1	2	3	1	1	2	1	2	3	4
Inflammation and repair	*		*	*	*	*	*	*	*	*
Cell injury, degeneration, necrosis & gangrene	*		*	*	*	*	*	*	*	*
Circulatory disturbances	*		*	*	*	*	*	*	*	*
Granulomas	*	*	*	*	*	*	*	*	*	*
Immunity	*		*				*	*	*	*
Ionizing radiation	*		*				*	*	*	*
Growth disturbances	*		*		*		*	*	*	*
Neoplasia	*	*	*	*	*	*	*	*	*	*

We certify that all of the information required to deliver this course is contained in the above specification and will be implemented.

Course Coordinator		Head of Department
Name	Prof. Dr. Azima Gamal Noseir	Prof. Dr. Maha Shamlola
Name (Arabic)	أ.د. عزيمة جمال نصير	أ.د. مها شملولة
Signature		
Date	3/9 /2018	3/9 /2018



Course Specification of Biochemistry

Course Title	Biochemistry	
Course Code	TDEN 01:03	
Academic Year	2018-2019	
Coordinator	Dr, Safwat M. Kassem	
Teaching Staff	Dr Safwat m. Kassesm, Dr. Wafaa Ebrahim , Dr. , Manal Mohammed El Batchy, Dr. Halah ELsaid Metwaly	
Course Delivery	Lecture	24\2 week
	Practical	24\1 week
Parent Department	Biochemistry	
Date of Approval – Date of revision	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- Teach students notes on vitamins, enzymes, carbohydrates, lipids, proteins chemistry and metabolism, hormones and minerals.
- Analyse basic chemical constituents of biological fluids in health and disease, with the ability to determine the relevant investigations for their applications in clinical diagnosis.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1. Define the metabolic pathways of carbohydrates, lipids, proteins, nucleotides and their micro-molecules to determine normal function of human body .
- a2. Recognize the related metabolic disorders and their clinical prints on biochemical and genetic basis.
- a3. Discuss the functions and deficiency manifestations of vitamins, hormones and minerals and their biochemical, clinical and laboratory diagnostic importance for better management.

B. Intellectual skills:

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

- b1. Interpret symptoms, signs and biochemical laboratory findings of some metabolic disorders.
- b2. Interpret urine report outcome and integrate results into meaningful diagnostic formulation.
- b3. Assess the clinical significance of measurements of plasma levels of glucose, total proteins, albumin, cholesterol, urea and uric acid.

C. Professional and practical skills:

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

- c1. Report the physical and chemical properties of normal urine under different physiological conditions.
- c2. Perform chemical tests to detect abnormal constituents of urine which can be used as basic laboratory tests.

D. General and transferable skills:

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

- d1. Adopt the principles of lifelong learning
- d2. Able to deal with information technology
- d3. Communicate with his colleagues in a team work inside the lab
- d4. Utilize the resources of biomedical information including the available electronic facilities to update his/her knowledge

3. Course Contents

Topic	No. of hrs.		
	Lectures	Practical/Small groups	Week
Enzymes	4	2	2
Carbohydrate Metabolism	10	5	5
Lipids metabolism	10	5	5
Protein & amino acids metabolism	12	6	6
Vitamins	4	2	2
minerals	4	2	2
Biochemistry of endocrine glands	4	2	2

4. Teaching and Learning Methods

5.1-Formal Lectures

5.2-Practical classes

5. Student Assessment

Assessment Method	Assessment Grade		Schedule
Semester Work		Quizzes	
	10	Midyear written exam	
3. Final Written examination	30		At end of academic year
4.Final Oral examination	10		

6. List of references

Course notes: Lectures notes in medical biochemistry for Dentistry students by staff members of Department of Medical Biochemistry, Faculty of Medicine, Tanta University, Tanta University Press, 2017

Essential Books: Lippincott's Reviews of Biochemistry, 3rd edition by Champe PC, Harvey RA, Ferrier DR, Lippincott William & Wilkins London, 2007

- Harper's Illustrated Biochemistry: 26th Ed by Murray RK, Granner DK, Mayes PA, Rodwell VW, McGraw-Hill companies New York, 2003.

- *Web sites:* <http://www.kumc.edu/biochemistry/resource.html>

<http://www.medlib.iupui.edu/ref/biochem.htm>

7. Facilities required for teaching and learning

- Lectures halls: faculty halls.
- Black and white board.
- Audiovisual aid (data shows, overhead, and slide projectors).
- Faculty library.

	Course Coordinator	Head of Department
Name	Prof. Dr. Safwat M. Kassem	Prof. Dr. Safwat M. Kassem
Name (Arabic)	أ.د. صفوت محمد قاسم	أ.د. صفوت محمد قاسم
Signature		
Date	9 /2018	9 /2018

Course contents – Course ILOS Matrix

Tanta University
Faculty of Medicine

Course Title: Biochemistry

Course Contents	Knowledge & Understanding			Intellectual skills			Professional & Practical Skills		General & transferable skills			
	a1	a2	a3	b1	b2	b3	c1	c2	d1	d2	d3	d4
Enzymes	√					√			√			
Carbohydrate Metabolism		√		√				√				
Lipids metabolism	√										√	
Protein & amino acids metabolism	√			√			√					√
Vitamins			√					√	√			
minerals	√		√	√	√		√				√	√
Biochemistry of endocrine glands		√				√		√		√		√

Course coordinator:
Prof. Dr. Safwat M. Kassem

Head of Department:
Prof. Dr. Safwat M. Kassem



Course Specification

Course Title	General Physiology	
Course Code	TDEN 01:04	
Academic Year	2018-2019	
Coordinator	Professor Salma Elwy Nassar	
Teaching Staff	Physiology staff members	
Branch / Level	First year	
Semester	First and second semester	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	4 hours / week for 24 weeks
	Practical	2 hours / week for 24 weeks
Parent Department	Physiology department	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- Continue upgrading the physiological basis.
- Explore in details the functions of the endocrinal, nervous, renal and digestive systems as well as their integration to achieve homeostasis.
- Integrate physiological data and mechanisms with the ongoing basic sciences; anatomy, histology and biochemistry and their clinical applications.
- Follow the rapidly changing and inflating details about molecular physiology and genetics.
- Develop the basic skills and ethical behavior required for scientific research, as well as effective communication and team work attitude.

2. Intended Learning outcomes (ILOs)

a. Knowledge and understanding:

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

- a1. Describe the functions of the nervous, endocrine and digestive systems at the organ and molecular levels.
- a2. Mention the properties of the cardiac muscle and factors affecting them.
- a3. Recognise the main functions of the heart and blood vessels, as well as the regulation and integrative actions of the cardiovascular system.
- a4. Describe the functional structure of the respiratory system,, respiratory cycle, its mechanism, regulation of normal respiration , respiratory functions of the blood and some conditions related to disorders
- a5. Describe the metabolism from the physiological point of view.

b. Intellectual skills:

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

- b1. Interpret the most important physiological blood laboratory results to distinguish a physiological from a pathological condition.
- b2. distinguish between physiological and pathological performance of different body systems

- b3.** Suggest the basic physiological measurements used to test different body functions.
- b4.** Integrate physiology with other sciences.

c. Professional and practical skills:

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

- c1.** Perform a systematic examination of the nervous system.
- c2.** Acquire the skills in the correct use of basic clinical equipment, such as: use of sphyngomanometer in the monitoring of the function of the cardiovascular systems.

d. General and transferable skills:

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

- d1.** Identify the essential ethical issues involved in scientific research.
- d2.** Work separately or in groups to research and prepare a scientific topic.
- d3.** Use available presentation aids (e.g. overhead projectors or data show) to present clearly and effectively a scientific topic in a tutorial, staff meeting or the yearly scientific day.

3. Course Contents

Weeks	Topics
1,2,3	1. Blood: • Introduction & properties of blood • Function of the blood • Plasma protein • Hemostasis • Erythrocytes • Blood group & leucocytes
4,5	2. Central Nervous System: • Introduction & Receptors • Somatic sensations (Mechano. & thermo) • Pain • Somatic sensations from the head • Pain analgesia system

	• Thalamus , Somatic sensory areas , Abnormal sensations
6,7,8	3. Respiration: • Introduction & Mechanism of respiration • I.P.P. & lung compliance • Lung surfactant & Respiratory work • Dead space • Lung Volumes & Capacities • Mechanism of gas exchange • O₂ D. curve • Respiratory centres & central mechanism of respiration • Regulation of respiration • Acid - Base balance • Hypoxia and cyanosis
9, 10	4. Autonomic Nervous System: • Introduction • Autonomic ganglia • Sympathetic • Parasympathetic • Chemical transmission
11,12	5. Metabolism: • Introduction, R.Q, B.M.R & S.D.A • Metabolism during muscular exercise • Regulation of body temperature
13,14,15,16	6. Digestion:

	• Salivary secretion & deglutition • Gastric secretion • pancreatic secretion • Bile secretion, jaundice • Small & Large intestine
17,18,19	7. Endocrinology: • Introduction • Pituitary gland • Thyroid gland • Calcium homeostasis • Suprarenal gland • Pancreas
20,21,22,23,24	8. Cardiovascular System: • Introduction & Properties • Innervations & Heart rate • Cardiac output & cardiac work • Arterial blood pressure • Diameter of arterioles • Capillary & lymphatic circulation

4. Teaching and Learning Methods

4-1 Lectures (4 hours/week): all the students attend in one big lecture hall

4-2 Tutorial (2 hours/2 weeks): half of the students attend in a small lecture hall.

Tutorial class is scheduled and previously announced, the subjects that conventionally directed are lagging by few weeks to the related branches and

systems given at that time in the lectures. Special topics from the curriculum are discussed in the tutorial.

4-3 laboratory demonstration, practical training and problem-based learning. Half of the students are divided into small groups, 2 hours/2 weeks.

- A year scientific day for the students in the form of small groups presentation. The title of the subjects is determined during several meetings with the staff members.
- Each teaching method is designed to serve different educational goal and together they provide an appropriately stimulating atmosphere for learning.

5. Student Assessment

Assessment Method		Assessment Length	Schedule	Proportion
Written Examination	Term exam	Assess a1,2,3,4,5	At the end of 1 st term	20% (30 marks)
	Final exam	Assess a1,2,3,4,5	At the end of year	60% (90 marks)
Oral Assessment		Assess a1-a5	At the end of year	14% (20 marks)
Practical Examination		Assess b1:4,c1:2,d1:3	At the end of year	6% (10 marks)

6. List of references

6-1 Course notes: Basic material; department book, written by the staff members.

6-2 Essential Books (Text books):

- Guyton C., Hall E. "Human Physiology and Mechanisms of Disease".
- Kim E. Barrett, Susan M. Barman "Gagnong's review of Medical physiology".

6-3 Web sites: www.Medscap.com

7. Facilities required for teaching and learning

	Course Coordinator	Head of Department
Name	Prof. Romaysaa Ali.	Prof. Romaysaa Ali
Name (Arabic)	أ. د. / رميساء على الشربيني	أ. د. / رميساء على الشربيني
Signature		
Date	/ 9 /2018	/ 9 /2018

5.5 Course contents – Course ILOs Matrix

Tanta University
Faculty of Medicine
Department of Physiology

Course Code / Course Title:

Course Contents	Course outcomes ILOs													
	Knowledge and Understanding					Intellectual				Practical		Transferable		
	A1	A2	A3	A4	A5	B1	B2	B3	B4	C1	C2	D1	D2	D3
9. Blood:														
• Introduction & properties of blood						•			•		•	•		
• Function of the blood						•	•						•	
• Plasma protein						•		•						
• Hemostasis						•		•						•
• Erythrocytes						•		•						
• Blood group & leucocytes						•		•						•
10. Central Nervous System:														
• Introduction & Receptors	•								•	•	•	•		
• Somatic sensations (Mechano. & thermo)	•									•			•	
• Pain	•						•			•			•	

Course Contents	Course outcomes ILOs													
	Knowledge and Understanding					Intellectual				Practical		Transferable		
	A1	A2	A3	A4	A5	B1	B2	B3	B4	C1	C2	D1	D2	D3
• Introduction	•								•	•	•			
• Autonomic ganglia	•									•		•		
• Sympathetic	•							•		•				•
• Parasympathetic	•							•		•				
• Chemical transmission	•						•	•		•			•	
13. Metabolism:														
• Introduction, R.Q, B.M.R & S.D.A					•				•		•	•		
• Metabolism during muscular exercise					•		•	•						•
• Regulation of body temperature					•		•	•					•	
14. Digestion:														
• Salivary secretion & deglutition	•						•	•	•		•	•		
• Gastric secretion	•						•	•						
• pancreatic secretion	•						•	•						•
• Bile secretion, jaundice	•						•	•			•		•	
• Small & Large intestine	•						•	•						
15. Endocrinology:														
• Introduction	•						•	•	•		•	•		
• Pituitary gland	•						•	•						•

Course Contents	Course outcomes ILOs													
	Knowledge and Understanding					Intellectual				Practical		Transferable		
	A1	A2	A3	A4	A5	B1	B2	B3	B4	C1	C2	D1	D2	D3
• Thyroid gland	•						•	•						
• Calcium homeostasis	•						•	•						
• Suprarenal gland	•						•	•					•	•
• Pancreas	•						•	•				•		
16. Cardiovascular System:														
• Introduction & Properties		•	•						•		•	•		
• Innervations & Heart rate		•	•					•			•			
• Cardiac output & cardiac work		•	•					•			•	•	•	
• Arterial blood pressure		•	•					•			•			•
• Diameter of arterioles		•	•					•					•	
• Capillary & lymphatic circulation		•	•					•						

Course coordinator: Prof. Romaysaa Ali

Head of Department: Prof. Romaysaa Ali



Course Specification

Course Title	Special Anatomy
Course Code	TDEN 01:05
Academic year	2018- 2019
Coordinator	Prof. Dr. Amal El Kattan
Teaching Staff	Anatomy staff members
Branch/ Level	First Year Dentistry
Semester	First& Second Semesters
Pre- Requisite	B.D.S
Course Delivery	Lecture 2 x 24 lectures
	Practical 2 x 24 practical lessons
Parent Department	Department of human Anatomy& Embryology- Faculty of Medicine – Tanta University
Date of Approval	Faculty Council on: 19/9/2018

1. Overall Course Aims

The aims of this course are to:

- Acquire a core body of scientific knowledge concerning the normal structure of the human body at the level of the anatomical regions and organs of the head and neck.
- Develop appropriate ethical and professional education necessary for dealing with cadavers.
- Help students to correlate anatomical facts with their clinical applications

2. Intended learning outcomes (ILOs):

A- Knowledge and understanding:

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

a1. Describe the normal structure of the human head and neck body and discuss the relations of their different organs and structures.

B- Intellectual skills

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

b1. Determine the different anatomical surface markings and the course of the internal structures (vessels, nerves and organs)

b2. Interpret and analyse clinical findings in correlation with the anatomical facts

b3. Express systemic thinking and personal judgement in clinical problem solving& MCQ questions

C- Professional and practical skills

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

- c1. Perform cadaveric examination to identify different structures and organs in the head& neck.
- c2. Draw and label the different anatomical structures

D- General transferable skills (attitude and communication skills)

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

- d1. Work collaboratively in a team with other colleagues and know when and how to ask for senior consultation.
- d2. Maintain a professional image in manner, dress, speech and interpersonal relationships that is consistent with the accepted contemporary medical profession standards.
- d3. Maintain honesty and integrity in all interactions with teachers and colleagues.
- d4. Manage time and resources effectively and evaluate their own work and that of others using constructive feedback.

3- Topics (Contents of the course)

Week	Topics
1	Skull& mandible
2	Face
3	Scalp
4	Parotid region
5	Temporal Fossa
6	Infratemporal Fossa
7	Infratemporal Fossa (continue)
8	Temporomandibular joint
9	Cranial Cavity (bone)
10	Cranial Cavity (soft structures)
11	Orbit
12	Orbit (continue)
13	Cervical vertebrae
14	Superficial& deep fascia of the neck& Sternomastoid muscle
15	Posterior triangle & Midline structures of the neck
16	Anterior triangle of the neck
17	Submandibular region& gland
18	Main vessels of the neck
19	Main nerves of the neck
20	Viscera, root& back of the neck
21	Mouth cavity& Tongue

22	Palate
23	Pharynx & Nasal cavity
24	larynx & ear

2

4-Teaching and learning methods

4.1 Lectures for acquisition of knowledge: 2 hours/week.

4.2 Practical classes: 2 hours/ week; including demonstration in the dissecting rooms, museum jars, plastic models and TV circuit.

5-Student Assessment:

a) Methods used

1- Semester work exam: Short essay questions, MCQ and complete questions to assess knowledge and understanding a1 and intellectual skills b3

3- Practical log book to assess knowledge and understanding a1, practical skills c2 and general skills d1.

4- Final written examination to assess knowledge and understanding a1, intellectual skills b3 and professional and practical skills c2.

5- Final oral examination to assess knowledge and understanding a1, intellectual skills b3, general transferable skills d2, d3

6- Final practical examination to assess knowledge and understanding a1, professional and practical skills c1 and general transferable skills d2, d3, d4.

b) Assessment schedule

Assessment	Assessment length	Schedule	Proportion
1- Mid-year examination	1 hour	1 st week of January	20%
2- only formative exam	-----	During lectures	-----
3- Final Practical exam & practical log book	20 minutes	1 st week of May	10%
4- Final year examination: - Written exam	3 hours	End of academic year (2 nd week of June)	60%
- Oral exam	10 minutes		10%

c) Weighing of assessments

Midyear examination	20% (20 marks)
Practical examination & practical logbook	10% (10 marks)
Final written examination	60% (60 marks)

Oral examination	10% (10 marks)
Total	100% (100 marks)

6- List of references

6.1 Course notes

Hand outs of lectures (either soft or hard copies)

6.2 Text book

Human anatomy series produced by the staff members of the Human Anatomy & Embryology Department, Faculty of Medicine, Tanta University:

- Head & Neck part I
- Head & Neck part II
- Osteology for First year dentistry
- Practical Log Book for First year dentistry

6.3 Recommended books

- Gray's Anatomy: The Anatomical Basis of Clinical Practice, Elsevier; 41 edition (October 9, 2015)
- Clinical anatomy by regions (Richard S. Snell) : 9th edition, Lippincott Williams & Wilkins, 2011
- Cunningham's manual of practical anatomy: 15th edition, Oxford University Press reprinted 2000
- Netter's Atlas of anatomy : Saunders; 5 edition (May 17, 2010)
- Grant Atlas of anatomy: Lippincott Williams & Wilkins; 13th edition (February 17, 2012)

6.4 Periodicals and web sites

- British journal of anatomy
- Journal of clinical anatomy
- www.innerbody.com
- www.instantanatomy.net

7-facilities for teaching and learning resources

- Dissecting rooms (cadavers, bones)
- Museum (jar specimens, plastic models)
- Internal TV circuit for displaying anatomy video films and CD movies
- Library (delivering text books and computers for achieving anatomy web sites)
- CD library (from the Simple group researches of the medical students)

- Optical zoom camera for assessment of bones and models

	Course Coordinator	Head of Department
Name:	Prof. Dr. Amal El Kattan	Prof. Magdy Saeed Mostafa
Name(Arabic):	أ.د./ أمال خليل القطان	أ.د./ مجدى سعيد مصطفى
Signature:		
Date:	9/2018	9/2018

5.5 Course contents – Course ILOs Matrix

Tanta University
Faculty of Medicine
Department of Anatomy Embryology

Course Code / Course Title: TDEN 01:05

Course Contents	Course outcomes ILOs									
	Knowledge and Understanding	Intellectual			Practical		Transferable			
	A1	B1	B2	B3	C1	C2	D1	D2	D3	D4
Skull& mandible	•	•	•	•	•	•	•		•	
Face	•	•	•	•	•	•				•
Scalp	•	•	•		•	•			•	
Parotid region	•	•	•	•	•	•		•		
Temporal Fossa	•	•	•		•	•				
Infratemporal Fossa	•		•	•	•	•	•			
Temporomandibular joint	•		•		•	•				
Cranial Cavity (bone)	•	•	•		•	•			•	
Cranial Cavity (soft structures)	•		•		•	•				•
Orbit	•	•	•		•	•				•

Course Contents	Course outcomes ILOs									
	Knowledge and Understanding	Intellectual			Practical		Transferable			
	A1	B1	B2	B3	C1	C2	D1	D2	D3	D4
Cervical vertebrae	•	•	•		•	•		•		•
Superficial& deep fascia of the neck& Sternomastoid muscle	•		•		•	•			•	
Posterior triangle & Midline structures of the neck	•	•	•		•	•	•			
Anterior triangle of the neck	•	•	•		•	•				
Submandibular region& gland	•	•	•	•	•	•			•	
Main vessels of the neck	•	•	•		•	•				•
Main nerves of the neck	•	•	•		•	•		•		
Viscera, root& back of the neck	•	•	•		•	•				
Mouth cavity& Tongue	•		•	•	•	•			•	
Palate	•		•	•	•	•	•			
Pharynx & Nasal cavity	•		•		•	•		•		
larynx & ear	•		•		•	•	•			

Course coordinator: Prof. Dr. Amal El Kattan

Head of Department: Prof. Magdy Saeed Mostafa

Course Specification

Course Title	Dental Biomaterial II
Course Code	TDEN 01:06
Academic Year	2018/2019
Coordinator	Dr.Gehan El- Oleimy
Teaching Staff	Prof.Dr. Manal El-Ebiary -Ass. Prof. Usama Abd- Alkareem- Dr.Gehan El- Oleimy
Branch / Level	First year
Course Delivery	Lecture 1hx25 lectures
	Practical 2h x25 Practical
Parent Department	Dental Biomaterial department
Date of Approval	Faculty of council on 19/9/2018

1. Course Aims

The aims of this course are to:

- Teach the students the principles of materials science that shape restorative dentistry practice and the considerations for materials selection for different restorative techniques.
- Develop a highly advanced knowledge about the recent dental materials and their proper applications related to the patient.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1. identify deeply the chemical and physical basics essential for handling of the dental biomaterials.
- a2. list the limitations and the durability of every material in an objective dental and social perspective
- a3. define the material from the commercial market independently and critically.
- a4. identify the optimal test method for any property of dental materials.
- a5. recognize the biological properties of different dental materials and their effects on oral hard and soft tissues.

- a6. recognize dental cements in full details, composite resin cement, glass ionomer cements, their modifications and commercial types.
- a7. identify nature of composite resin restoration from basics to recent types and modifications.
- a8. recognize adhesive bonding to teeth, systems, mechanism, key factors for success, composition, clinical performance.
- a9. list types and properties of dental amalgam.
- a10. describe different high strength ceramic materials and their recent manufacturing techniques including CAD-CAM manufacturing .
- a11. list Endodontic materials, root canal filling materials, post systems and materials.
- a12. list types of impression materials and indications for each type.
- a13. recognize requirements and types of model and die materials.
- a14. list the denture base materials recent types and their indications that related to the patient.
- a15. describe soft liners for dentures and methods of lining the denture.
- a16. list types and uses of dental wax.

B. Intellectual skills:

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

- b1. distinguish the best innovative dental techniques, materials and tools.
- b2. differentiate the most correct information generally, and also specifically about recent dental materials from the many different scientific studies.
- b3. develop a better understanding of the innovative dental materials, and tools.

C. Professional and practical skills:

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

- c1. choose the appropriate material for each situation.
- c2. solve the problems associated with side-effects of the materials.
- c3. use different dental materials in practice.

D. General and transferable skills:

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

- d1. work with other members in the dental team.

d2. use all resources effectively to continuing professional development and assess personal progress.

d3. use contemporary information technology for communication and management of information.

3. Course Contents:

Week	Topics
1,2,3,4	Dental cements
5,6,7	Composites
8	Adhesives& bonding
9,10,11	Amalgam
12,13,14	Ceramic
15,16	Endodontic material
17	First mid-term exam
18,19,20,21	Impression Materials
22	Model & die materials :Gypsum products & other materials
23,24	Denture base material
25	Denture lining material
26	Dental wax

4. Teaching and Learning Methods

4.1 Lectures (power point presentation).

4.2 Laboratory practical.

5. Student Assessment

Assessment Method	Assessment Length	ILOS covered	Schedule	Marks	Proportion
Written Examination	3 h	a1-a16, b1-b3	At the end of the year	60 marks	60%
Oral Assessment	15 min.	a1-a16, b1-b3, d3	At the end of the year	20 marks	20%
Semester work	45 minutes each exam.	a1-a11	Written examination held 1 time /year	10 marks	10%
		c1-c3	Practical evaluation all over the year.	10 marks	10%

6. List of references:

Course notes: Handouts

Essential Books: (Textbooks):

KENNETH J. ANUSAVICE: Phillips's science of dental materials, 13th ed, 2013.

Ronald L. S. John M. Powers: Craig's restorative dental materials, 14th ed, 2018.

Web sites PubMed homepage: <http://www.ncbi.nlm.nih.gov/pubmed>

It is a Medline search in the international scientific journals and Full text original articles and reviews of some scientific journals (e.g. Dental Materials journal) are available through the Tanta University internet access at the Faculty of Dentistry.

7. Facilities required for teaching and learning:

- Well-equipped students laboratory are required to qualify the research work of the students.
- A laboratory is required for proper students training.
- Enough amounts of dental materials are required for students' exercises.
- A Video, a television and a data-show are required inside the laboratory to show the students the practical work during the laboratory sessions.

	Course Coordinator	Head of Department
Name:	Dr. Gehan El- Oleimy	Prof. Dr. Manal El-Ebiary
Name (Arabic)	د. جيهان العليمي	أ. د. منال الابياري
Signature		

تم الاعتماد في مجلس القسم بتاريخ 6 / 9 / 2018



University: Tanta

Faculty: Dentistry

Department: Dental Biomaterials

5.5 Course contents- course ILOs Matrix

Course code/ course Title: TDEN 01:06.Dental Biomaterials II

Course Title/	Course outcomes																									
	Knowledge and understanding																Intellectual			Practical			Transferable			
	A 1	A 2	A 3	A 4	A 5	A 6	A 7	A 8	A 9	A 10	A 11	A 12	A 13	A 14	A 15	A 16	B 1	B 2	B 3	C 1	C 2	C 3	D1	D2	D3	
Dental cements	√	√	√	√	√	√											√	√	√	√	√	√		√	√	
Composites	√	√	√	√	√		√										√	√	√	√	√	√	√	√	√	
Adhesives	√	√	√	√	√			√									√	√	√	√	√	√	√	√	√	
Amalgam	√	√	√	√	√				√								√	√	√	√	√	√	√	√	√	
Ceramic	√	√	√	√	√					√							√	√	√	√	√	√	√	√	√	
Endodontic material	√	√	√	√	√						√															
Impression materials	√	√	√	√	√							√						√	√	√	√	√	√	√	√	
Model& die materials	√	√	√	√	√								√				√	√	√	√	√	√	√	√	√	
Acrylic resins	√	√	√	√	√									√			√	√	√	√	√	√	√	√	√	
Soft liners	√	√	√	√	√										√		√	√	√	√	√	√	√	√	√	
Dental wax	√	√	√	√	√											√	√	√	√	√	√	√	√	√	√	

Course coordinator:

Dr.Gehan El- Oleimy

Head of Department

Prof .Dr. Manal El-Ebiary



Course Specification

General Microbiology

Course Title	General Microbiology	
Course Code	TDEN 01:07	
Academic Year	2018-2019	
Coordinator	Dr. Rasha Alm El-Din	
Teaching Staff	Prof. Dr. Mohamed Zakaria, Ass. Prof. Dr. Rasha Alm El-Din & Ass. Prof. Dr. AbouElfetouh ElAnani	
Branch / Level	First year	
Pre-Requisite	B.D.S	
Semester	First & second semester	
Course Delivery	Lecture 24 / 2h	
	Practical 2h/ week	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- Provide students the basic concepts of bacterial, viral and fungal morphology, metabolism, physiology, genetics, and induced diseases, especially endemic in the locality: their transmission, laboratory diagnosis, treatment, prophylaxis and control, and their antimicrobial susceptibility.
- Provide students with the essential knowledge of the structure and function of the immune system, and immune mediated diseases and their diagnosis
- Make students aware of the different nosocomial infections and principles of sterilization and infection control.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a-1- Recognize general (bacterial, viral, fungal) morphology, physiology and genetics.

- a2- Recognize the principles of growing and cultivating microorganisms.**
- a3- Determine the scientific basis of using antimicrobial agents, their mode of action, application and complications in vivo and in vitro.**
- a4- Describe the host parasite relationship and microbial virulence and pathogenesis.**
- a5- Determine the physiology of the immune system, its structure, normal function, beneficial and harmful reactions.**
- a6-Identify and Differentiate microorganisms of medical importance, their virulence, pathogenesis, clinical diseases they cause, diagnosis, treatment, prevention and control .**
- a7- Perceive nosocomial infections, principles and methods of decontamination and infection prevention and control.**
- a8- Define the clinical manifestations of systemic infections and different organisms causing them, and how to reach a diagnosis.**

B. Intellectual skills:

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

- b 1-Categorise microorganisms as a bacterium, virus or fungus according to standard taxonomy.**
- b2- Set up a policy for using the different laboratory procedures necessary to approach diagnosis of the common infectious clinical conditions with prioritization of the most appropriate and most cost effective tests to be used.**
- b3- Interpret results and reports of microbiological, serological, immunological and molecular tests.**
- b4- predict the antibiotics used in treatment of each disease. community.**
- b5- Discuss the danger of handling and use of infectious agents on**

C. Professional and practical skills:

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

- c1- Perform Simple, Gram and Zeihl- Neelsen strains of bacteria and identify according to morphology and the characteristics of stained preparations.**
- c2-Identify microscopic stained preparations of the most medically important bacteria.**
- c3-Identify culture media (with and without growth) and the different biochemical tests used to identify bacteria and diagnose infectious diseases.**
- c4- Apply different methods of sterilization, disinfection and infection control.**
- C5- Identify antibiograms used for choice of proper antibiotics.**

D. General and transferable skills:

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

- d.1- Able to deal with information technology.**
- d.2- Communicate effectively with all potential health care providers**
- d.3- Collaborate with his colleagues in a team work inside the lab.**

3- Topics (Contents of the course):

Topic	No. of lectures	
	Lectures	
<u>I) General bacteriology</u>		
<u>1. Introduction</u>	<u>1</u>	
<u>2. Morphology and structure</u>	<u>1</u>	
<u>3. Physiology and metabolism</u>	<u>1</u>	
<u>5. Sterilization</u>	<u>1</u>	
<u>6. Chemotherapy</u>	<u>1</u>	
<u>II) Immunology</u>		
<u>1. Innate immunity</u>	<u>1</u>	
<u>2. Immunoglobulins</u>	<u>1</u>	
<u>3. Antigens</u>	<u>1</u>	
<u>4. Acquired immunity</u>	<u>1</u>	
<u>5. Cells of immune response</u>	<u>1</u>	
<u>6. Complement system&Cytokines</u>	<u>1</u>	
<u>7. Oral immunology</u>	<u>1</u>	
<u>9. Hypersensitivity</u>	<u>1</u>	
<u>III) Systemic bacteriology</u>		
<u>1. Classification</u>	<u>1</u>	
<u>2. Staphylococci</u>	<u>1</u>	
<u>3. Streptococci & pneumococci</u>	<u>1</u>	
<u>4. Nisseria</u>	<u>1</u>	
<u>5. Bacillus group& Clostridium group</u>	<u>1</u>	
<u>7. Mycobacterium group</u>	<u>1</u>	
<u>10. Anaerobic bacteria</u>	<u>1</u>	
<u>IV) General &Systemic Mycology</u>	<u>1</u>	
<u>V) General &Systemic Virology</u>	<u>1</u>	
<u>VI) Infection control & Nosocomial Infection</u>	<u>1</u>	
<u>VII) Applied dental Microbiology</u>	<u>1</u>	

4. Teaching and Learning Methods

4.1. Lectures: 2 hours are held weekly throughout the academic year. They set the scene for a topic, highlight important issues and direct the attention to different Immunological disorders and microbial diseases.

4.2. Practical classes: students are divided into three groups; each group has one practical class per week throughout the academic year.

4.3. Small groups for case study and problem solving discussion.

5. Student Assessment

a) Methods used

1. Attendance criteria: Students should attend not less than 75% of practical classes as an essential prerequisite to be legible for the final exams.
2. Written Examination and MCQs to assess a1-a8, b1-b5 and c5.
3. Oral examination to assess a1-a8, b1-b5 and d2.
4. Practical classes to assess d1-d3.

b)- Assessment schedule

Assessment	Week
1-A Mid-year examination.	At the end of first term
2- Final examination	At the end of the academic year.
3- Oral examination	At the end of the academic year.
4- 2 periodical exams	Throughout the academic year

c- Weighing of assessments

Exam	% of Total
Mid term examination	10%
Final term written examination	60 %
Oral examination	20%
Periodical exams	10%
Total	100%

d) Attendance criteria:

1. Practical attendance: to Students should attend not less than 75% of practical classes as an essential prerequisite to be legible for the final exams.
2. Practical books: including lab. Manual and log book.

6. List of references

6.1 Course notes

MEDICAL MICROBIOLOGY & IMMUNOLOGY: Department theoretical books and practical manual (4 volumes) available for students to purchase from different bookshops at the faculty.

6.2 Text book

Jawetz, Melnick and Adelberg's Medical microbiology

6.3 Recommended books

Mackie and McCartney practical medical microbiology – Koneman, Allen and Janda color atlas and text book of diagnostic microbiology.

6.4 Periodicals and web sites

- <http://www.asm.org/>
- <http://www.phages.org/>
- <http://www.microbeworld.org/>
- <http://www.microbelibrary.org/>
- <http://www.cdc.gov/hepatitis/index.htm>
- <http://pathmicro.med.sc.edu/book/welcome.htm>

7. Facilities required for teaching and learning

Facilities used for teaching this course include:

Lecture halls

Laboratories (with sinks, instruments and microscopes)

Small group areas (rooms) equipped with computer assistance and data shows

	Course Coordinator	Head of Department
Name	Assist.Prof. Rasha Alm El-Din	Prof. Mohamed Zakaria
Name (Arabic)	أ.د. رشا علم الدين	أ.د. محمد زكريا
Signature		
Date	9 /2018	9 /2018

5.5 Course contents – Course ILOs Matrix

University: Tanta

Faculty: Medicine

Department: General Microbiology

Course Code / Course Title: TDEN 01:07 / General Microbiology

Course Contents	Course outcomes ILOs																				
	Knowledge and Understanding								Intellectual					Practical					Transferable		
	A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5	D1	D2	D3
1. General bacteriology: A. Introduction B. Morphology and structure C. Physiology and metabolism	√	√		√					√	√				√		√			√		√
1. General bacteriology: D. Sterilization																	√		√	√	√
1. General bacteriology: E. Chemotherapy			√									√						√	√	√	√
2. Immunology				√	√						√								√	√	√
3. Systemic bacteriology				√		√		√		√	√	√		√	√	√			√		√
4. General & Systemic Mycology						√		√		√	√	√			√				√		
5. General & Systemic Virology						√		√		√	√	√							√		
6. Infection control & Nosocomial Infection						√	√	√				√	√						√	√	
7. Applied dental Microbiology						√	√	√		√	√	√	√	√					√	√	√

Course coordinator: Assist.Prof. Rasha Alm El-Din

Head of Department: Prof. Mohamed Zakaria



Second Year

Course Specification

Course Title	Oral Pathology	
Course Code	TDEN 02:01	
Academic Year	2018-2019	
Coordinator	Prof. /Iman El-Shamy	
Teaching Staff	Prof./ Adel Raghib, Prof./ Nahed Abo-Azma, Prof./ Sanaa Anis, Prof./Shokria Ghonim, Prof./ Iman El-Shamy, Assoc.Prof./Eman Megahed, Dr./ Wafaa Mostafa, Dr./ Heba Youssef, Dr. Basant Hamdy	
Branch / Level	Oral Pathology, The 2nd year students	
Semester	1st and 2nd semesters (One academic year)	
Pre-Requisite	BDS	
Course Delivery	Lecture	3 h/ week
	Practical	3 h/ week
Parent Department	Oral Pathology Department	
Date of Approval	19/9/2018	

1. Course Aims

The aims of this course are to:

- Identify the causes, processes, effect and management of diseases affecting oral and maxillofacial regions to enable the students to diagnose different diseases using clinical, radiographic, microscopic features as well as biochemical and other analytical methods.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1-** Recognize the etiology and pathogenesis of common oral diseases
- a2-** List the risk factors of diseases.
- a3-** Identify the clinical, radiographic and microscopic features of these diseases.
- a4-** Define the scientific terms of the oral pathology course.
- a5-** State various factors affecting prognosis of studied oral diseases.

B. Intellectual skills:

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

- b1-** Associate signs and symptoms of oral diseases.
- b2-** Assess radiographic and laboratory reports covering the most important oral conditions.
- b3-** Connect the clinico-pathological features of the diseases.
- b4-** Compare the differential diagnosis of similar diseases.
- b5-** Create a definite diagnosis.
- b6-** Solve problem in the light of available information

C. Professional and practical skills:

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

- c1-** Identify the etiological factor(s) of the disease.
- c2-** Perform spot diagnosis.
- c3-** Practice the differentiation between pathological lesions by their microscopic picture.
- c4-** Manage clinical, radiographic and histopathologic problems using clinico-pathological correlation (CPC) slides.
- c5-** Apply the additional laboratory investigation to help in diagnosing cases in which histopathologic features are not diagnostic.
- c6-** employ the available data of oral diseases to reach final diagnosis.

D. General and transferable skills:

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

- d1-** Formulate student awareness about mode of transmission of infectious diseases
- d2-** Present student's skill for early detection of oral cancer and other diseases.
- d3-** Communicate in a team and collaborate with other students to reach their target.
- d4-** Advocate the knowledge gained to increase awareness of community.

3. Course Contents

Week	Topics
1	Introduction & biopsy
2,3	Developmental disturbances of oral & para-oral structures
4	Dental caries
5	Pathology of Pulp and periapical region
6	Osteomyelitis
7,8	Cysts of oral and perioral tissues
9	Odontogenic tumors
10	Reactive lesions
11	Bone diseases
12	White oral lesions
13	Carcinogenesis
14	Premalignant oral lesions
15	Benign epithelial non-odontogenic tumors
16	Malignant epithelial non-odontogenic tumors
17	Benign connective tissue non-odontogenic tumors
18	Malignant connective tissue non-odontogenic tumors
19	Salivary gland diseases

20	Benign salivary gland tumors
21	Malignant salivary gland tumors
22	Melanotic lesions
23	Metastatic lesions
24	Infectious diseases
25	Vesicullo-bullous lesions

4. Teaching and Learning Methods

- Lectures using visual presentation, using data show (power point).
- Computer-based programs and e-learning website.
- Self-learning and assignment.
- Practical sessions using histopathologic pictures and Clinico-pathological correlation (CPC) ppt. slides.
- Group activity represented by group discussion, brain storming and role play.
- The scientific research, its presentation, discussion.

5. Student Assessment

Assessment Method	Assessment Length	Ilos covered	Grade
Written Examination	3h	a1-5,b1-6	80
Oral Assessment	20 min.	a1-5,b1-6	30
Practical Examination	30 min.	C1-6	50
Semester work	30min.	c1-5,b1-6,c1-2	40

6. List of references

1- Course notes:

Notes in Oral Pathology. 2014. By Staff Members of Oral Pathology Department.
Tanta University

2- Essential Books:

1. Neville B., Damm D., Allen C and Bouquot J: (2015) Oral and Maxillofacial Pathology, 4th edition, Saunders Elsevier. ISBN-9788131215708.
2. Cawson, E. W. Odel R. A (2017): Cawson's Essentials of Oral Pathology and Medicine, 9th edition, Churchill Livingstone.
3. Wood and Goaz (1997) Differential Diagnosis of Oral and Maxillofacial Lesions 5th edition
4. Greenberg, Glick and Ship 2014 Burkett's Oral Medicine 12th edition.

5. Oral Diagnosis: The Clinician's Guide, Warren Birnbaum and Stephen M. Dunne. Butterworth-Heinemann (2000).
6. Principles of Oral Diagnosis: by G. C. Coleman and J. F. Nelson. Mosby Year Book, Mosby; illustrated edition 1992.

3- Web sites:

1. www.oralpath.com
2. [http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1600-0714](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1600-0714)
3. <http://www.sciencedirect.com/science/journal/10792104>
4. <http://www.ncbi.nlm.nih.gov/pubmed>

7. Facilities required for teaching and learning

1. Equipped laboratories with computers & data show devices.
2. More staff members are needed.
3. Provide air conditioning systems.
4. Video films.

	Course Coordinator	Head of Department
Name	Prof. Iman El-Shamy	Prof. Iman El-Shamy
Name (Arabic)	أ.د. ايمان الشامي	أ.د. ايمان الشامي
Signature		

It has been documented in the department meeting in //٢٠١٨

Course Matrix for Oral Pathology (undergraduate students)

Course Contents	ILOS																				
	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6	D1	D2	D3	D4
Introduction & biopsy				•	•																
Developmental disturbances of oral & para-oral structures	•					•		•				•			•						
Dental caries	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•			•
Pathology of Pulp and periapical region	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•			•
Reparative & regressive alterations of teeth	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•			•
Cysts of oral and perioral tissues	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•			•
Odontogenic tumors	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•			•
Reactive lesions	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•			•
Bone diseases	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•			•
White oral lesions	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•			•
Carcinogenesis	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•
Premalignant oral lesions	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•			•
Benign epithelial non-odontogenic tumors	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•			•
Malignant epithelial non-odontogenic tumors	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•
Benign connective tissue non-odontogenic tumors	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•			•
Malignant connective tissue	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•

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Oral Pathology Department

non-odontogenic tumors																					
Salivary gland diseases	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•			•
Benign salivary gland tumors	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•			•
Malignant salivary gland tumors	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•
Metastatic lesions	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•			•
Infectious diseases	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•			•
Vesicullo-bullous lesions	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•			•

Course Coordinator

Prof./ Eman El Shamy

Head of Department

Prof./ Eman El Shamy

Course Specification

Course Title	Technology of Restorative Dentistry	
Course Code	TDEN 02:01	
Academic Year	2018-2019	
Coordinator	Prof. Dr. Ali Ibrahim	
Teaching Staff	Dr. Ali Ibrahim, Dr.Hussin Yehia,Dr.Mostafa Hassan, Dr. Wedad Etman , Dr. Ashraf Nasar	
Branch / Level	Second year	
Semester	First & Second semester	
Pre-Requisite	B.D.S program	
Course Delivery	Lecture	25 x 2 h lectures
	Practical	25x 4 h practical
Parent Department	Restorative Dentistry	
Date of Approval	Council of faculty of dentistry, on 19/9/2018	

1. Course Aims

The aims of this course are to:

- Present the meaning of applications and benefits of conservative dentistry.
- Represent all the scientific terms related to the course, and students shall use all terms correctly and accurately.
- Gain the ability to carry out all the clinical steps in the lab resulting in satisfactory restoration of different classes of carious and non carious lesions.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1.** Define what is meant by conservative dentistry.
- a2.** Describe different types of carious lesions.
- a3.** Determine the management of carious lesions.
- a4.** Recognize and handle different Instruments & dental materials used in conservative dentistry.
- a5.** Identify different classes of cavity preparations.

B. Intellectual skills:

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

- b1** Differentiate between different dental materials used in Conservative Dentistry.
- b2** Differentiate between different various instruments used in cavity preparations.
- b3** Select the different instrument to be used in the restorative procedures.
- b4** Choose the different restorative options.

C. Professional and practical skills:

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

- c1. practise different classes on ivory teeth.
- c2. Operate different classes on natural teeth.
- c3. Apply cement base properly.
- c4. Apply amalgam restorative material in different cavities.
- c5. Practice composite restoration in class I, III, IV and class V cavities.

D. General and transferable skills:

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

- d1. express properly in a team work.
- d2. Communicate with his colleagues & supervisors easily.
- d3. Advocate proper self evaluation.

3. Course Contents

Week	Topics
1	Introduction to Conservative Dentistry Objectives and Terminology
2	-cavity nomenclature
3-4	Dental Caries: -Definition and etiology -Classification -Diagnosis (black classification – Si/ Sta classification) -Sites and Progression of Caries
5-6	-instrument and instrumentation -rotary cutting instruments
7-8	*principles of Cavity Preparation 1-biologic principles
9-10-11	2- mechanical principles
12-13	- class I -class II
14-15	Instrument and instrumentation * hand instruments * gripping of instruments
16-17-18	Pulp Protection Therapy: -Varnishes -Liners -Bases
19-20	Amalgam Restoration

21	-class III
22-23	Composite restoration
24-25	class V

4. Teaching and Learning Methods

4.1 Lectures- illustrated with case studies

4.2 Practical Sessions (Direct contact between the students and their demonstrators and professors).

4.3 teaching aids and tools as

- Lecture Notes.
- Demonstration CD's.
- Plaster blocks for demonstration of line and point angles and walls of the prepared cavities.
- Ivory teeth models and ivory teeth cavity preparation of (classes I, II, III, V) for amalgam.

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion	ILOs
Written Examination	3 hours	At the end of the year	40%	a1-a5 b1-b5
Oral Assessment	About half hour\group	At the end of the year	16.7%	a1-a5 b1-b4
Practical Examination	3 hours	Mid-April	23.3%	c1-c5
Semester work	1 hour quiz +practical requirements through the year	During 1 st & 2 nd semester	20%	a1-a3 b1-b3 c1-c5

6. List of references

Course notes: Separate helpful notes from the different lectures, for each item, or subject.

Essential Books:

- Gilmore, et al., *Operative Dentistry*. C.V. Mosby Company (1982).
- Baum, L., Phillips, R.W., and Lund, M.R., *Textbook of Operative Dentistry*. W.B. Saunders (1995).
- Albers, H.F., *Tooth Colored Restoratives*. Alto Books (2002).
- I Anand Sherwood & L. Lakshmi Narayanan, *Essentials of Operative Dentistry*, JP Medical Ltd, (2010)
- Nisha Garg & Amit Garg., *Text book of Operative Dentistry*. JP Medical Ltd, (2015)
- Sturdevant's art and science of operative dentistry. Andre V.Ritter. Leew.Boushell. Ricardo Walter- (2019)

Web sites:

7. Facilities required for teaching and learning

- 7.1 Appropriate teaching accommodation.
- 7.2 Computer/ Lap top.
- 7.3 Data show.
- 7.4 White board (and markers).
- 7.5 Adequately prepared laboratories (with adequate no. of simulators).
- 7.6 Materials required by students.
- 7.7 Instruments
- 7.8 Providing lecture notes and manuals.

	Course Coordinator	Head of Department
Name	Prof. Dr. Ali Ibrahim	Prof. Dr. Wedad Etman
Name (Arabic)	أ. د\على ابراهيم	أ. د\وداد عثمان
Signature		
Date	5/9/2018	5/9/2018

تم اعتماده في مجلس القسم بتاريخ 5/9/2018

5.5 Course contents – Course ILOs Matrix

University: Tanta

Faculty: Dentistry

Department Restorative Dentistry

Course Code / Course Title: Restorative Dentistry 2nd year 2018-2019

Course Contents	Course outcomes ILOs																			
	Knowledge and Understanding						Intellectual					Practical						Transferable		
	a1	a2	a3	a4	a5	a6	b1	b2	b3	b4	b5	c1	c2	c3	c4	c5	c6	d1	d2	d3
Introduction, objectives and terminology	✓																			
cavity nomenclature	✓																			
Dental caries		✓	✓																	
Black`s classifications						✓						✓	✓							
Principals of cavity preparation			✓			✓						✓	✓							
Mechanical principals			✓			✓						✓	✓							
Instruments and instrumentation				✓	✓			✓	✓			✓	✓							
Class I,II, III, V for amalgam						✓						✓	✓							
Pulp protection therapy			✓																	
Dental matrices															✓					
Amalgam restoration							✓			✓						✓				
Composite							✓			✓							✓			
Self evaluation																		✓	✓	✓

Course coordinator:
Prof .Dr. Ali Ibrahim

Head of Department:
Prof . Dr. Wedad Etman



Course Specification

Course Title	Fixed prosthodontics	
Course Code	TDEN 02:03	
Academic Year	2018-2019	
Coordinator	Dr. Fatma Ahmed Hasaneen	
Teaching Staff	Dr. Gaber Masoud, Dr.M Seddik , Dr.M Shakel, Dr.F Hasaneen	
Branch / Level	Second year	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	24 x 2 h lectures
	Practical	26 x 4 h practical
Parent Department	Fixed prosthodontics	
Date of Approval	Faculty Council on: 19 /9/2018	

1. Course Aims:

The aims of this course are to:

Perfectly implement the ability to carry out the practical and the laboratory steps needed to perform single fixed units, and modify the skills needed to prepare different single units.

1. Intended learning outcomes (ILOS):

A. Knowledge and understanding:

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

- a1. Define the terminology related to crown and bridge
- a2. Identify what is the mean of lost wax technique for indirect technique
- a3. identify the primary impression technique and related procedures
- a4. reproduce the principles of tooth preparation for different fixed restorations
- a5. Identify indications, contraindications, advantages, disadvantages of each tooth preparation
- a6. Identify using of proper instrument for tooth preparation
- a7. Recognize of the basic sciences of dental materials and how to use them.
- a8. Recognize the integration between crown and bridge and the basic sciences
- a9. Reproduce all laboratory steps required for the construction of single unit fixed denture prosthesis.

B. Intellectual skills:

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

- b1. Create the proper design for the construction for single crown and assess steps for construction of fixed restorations.
- b2. Compose steps for constructing single fixed units.
- b3. Plan the laboratory technique needed for the construction for single units.
- b4. differentiate correct and, or defective laboratory steps.

b5. Identify the manifestation of failure of laboratory steps.

C. Professional and practical skills:

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

- c1. Perform the steps of preparation on model for full-metal crowns.
- c2. Perform the steps of preparation on model for porcelain fused to metal (PFM) crowns
- c3. Perform the steps of preparation on model for all ceramic crowns
- c4. Use different types of ready-made interim restorations
- c5. Use wax pattern for casting crowns.
- C6. Apply different laboratory steps for casting metal restorations.

D. General and transferable skills:

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

- d1. Communicate properly with each other and with colleagues in a team work
- d2. Advocate the problem solving methods.
- d3. Express self confidence
- d4. Illustrate E-learning, self-teaching and recent technology.
- d5. Present thoughts and ideas to enhance his/her own learning skills
- d6. display appropriate professional behavior

2. Course Contents

weeks	Topics
1	Curriculum and Grading
2	Introduction and Terminology
3-4	<u>Principles of Tooth Preparation</u>
5	Inlay and onlay tooth preparation
6	3/4tooth preparation and modifications
7	Complete cast crown tooth preparation
8	All ceramic tooth preparation

9	Porcelain fused to metal tooth preparation
10	Primary impression and related procedures
11	Impression materials and techniques I
12	Impression materials and techniques II
-	Mid-year examination
13	Articulation and mounting
14-15	Working cast and die
16-17	Wax pattern
	Quiz
18	Spruing
19	Investing
20	Burn out
21	Casting
22	Casting defects
23	Finishing and polishing
24	Revision
	Final-year practical exam

4. Teaching and Learning Methods

4.1 Lectures- illustrated with case studies.

4.2 Practical Sessions (Direct contact between the students and their demonstrators and professors).

5. Student Assessment

Assessment Method	Assessment Length	ILOS Coverd	Proportion
Written Examination	3 hours	a1-9,b1-5	40%
Oral Assessment	About half hour \group	a1-9,b1-5	15%
Practical Examination	3 hours	C1-6	25%
Semester work	1 hour quizzes +practical requirement through the year	C1-6,a1-7,b1-3	20%

6. List of references

Course notes: Separate helpful notes from the different lectures, for each item, or subject.

Essential Books:

(a) Contemporary Fixed Prosthodontics by Rosenstiel S F et al.,5th edition., 2015

(b) *Fundamentals of Fixed Prosthodontics* by Shillingburg, et al., 4th edition., 2013

Supplemental Books:

(a) Philips Science of Dental Materials. 10th edition., WB Saunders, Philadelphia

7. Facilities required for teaching and learning

7.1 Appropriate teaching accommodation.

7.2 Computer/ Lap top.

7.3 Data show.

7.4 White board (and markers).

7.5 Adequately prepared laboratories (with simulators).

7.6 Materials and Study Models – required by students.

7.7 Providing lecture notes, manuals and sheets.

7.8 LCDs and Intraoral cameras for demonstrations.

Course Coordinator		Head of Department
Name	Dr. Fatma Ahmed Hasaneen	Prof. Dr. Mahmoud Shakal
Name (Arabic)	د. فاطمه أحمد حسنين	أ. د. محمود شكل
Signature		
Date	14/ 9 /2018	١٤/٩ /2018

5.5 Course contents – Course ILOs Matrix

University: Tanta

Faculty: Dentistry

Department: Fixed prosthodontics

Course Code / Course Title: TDEN 02:03/ Fixed prosthodontics

Course Contents	Course outcomes ILOs																									
	Knowledge and Understanding									Intellectual					Practical						Transferable					
	a1	a2	a3	a4	a5	a6	a7	a8	a9	b1	b2	b3	b4	b5	c1	c2	c3	c4	c5	c6	d1	d2	d3	d4	d5	d6
Curriculum and Grading	√																				√					√
Introduction & Terminology	√							√														√			√	√
Principles of tooth preparation			√				√			√	√											√	√	√		
Inlays and onlays tooth preparation				√	√	√				√	√												√	√	√	
3/4 tooth preparation and modifications				√	√	√															√					
Complete cast crown tooth preparation				√	√	√																√				
PFM tooth preparation				√	√	√				√	√				√							√	√			
All ceramic tooth preparation				√	√	√				√	√					√						√	√		√	
Primary impression and related procedures				√	√	√				√	√						√					√	√			
Articulators and mounting									√	√	√	√	√	√									√	√	√	√
Working cast and dies									√	√	√	√	√	√						√	√	√		√	√	
Wax patter		√					√		√	√	√	√	√	√						√	√					
Spruing									√	√	√	√	√	√						√		√	√			
Investing							√		√	√	√	√	√	√						√		√		√		
Burn out									√	√	√	√	√	√						√		√		√	√	
Casting									√	√	√	√	√	√						√		√	√	√		
Casting defects									√	√	√	√	√	√						√		√	√		√	
Finishing and polishing									√	√	√	√	√	√						√		√	√			

Course coordinator:

Dr. Fatma Ahmed Hasaneen

Head of Department:

Prof. Dr. Mahmoud Shakal

Course Specification

Course Title	Technology of Prosthetic Dentistry	
Course Code	TDEN 02:04	
Academic Year	2018-2019	
Coordinator	Prof. Safa'a Alsayed Asal	
Teaching Staff	Prof. Safa'a Alsayed Asal, Prof. Ibrahim Ramadan, Dr. Azza El-Segae, Dr. Zainab Abdelaal, Dr. Tamer Nasr.	
Branch / Level	Second year	
Course Delivery	Lectures	25 x 2h lectures
	Practical sessions	25 x 6h practical
Parent Department	Prosthodontic Department	
Date of Approval	Faculty council 19/9/2018	

1. Course Aims

The aim of this course is to:

- Prepare the student to understand the biological, mechanical as well as the esthetic aspect of complete denture (CD) and removable partial denture (RPD) treatment.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a. Recognize the anatomy that directly affects the construction of complete and removable partial dentures.
- a2. Observe the areas of edentulous maxillary and mandibular casts that correspond to the anatomical structures associated with the support of complete dentures.
- a3. List the factors affecting stability, support, and retention of complete dentures.
- a4. Recognize the various methods used in fabricating base plates and occlusion rims and identify their advantages and disadvantages.
- a5. List the steps of arranging denture teeth to articulate.
- a6. Review the ability to wax-up denture base contour including palatal contours.
- a7. State finishing and polishing techniques for complete dentures prior to delivery.

- a8. Describe the repair of complete dentures.
- a9. Select a system of classifying removable partial dentures and partially edentulous arches.
- a10. Describe the dental surveyor and its uses.
- a11. Describe the various component parts of removable partial dentures, their functions, and the factors, which dictate their use.
- a12. Recognize the problems of removable partial dentures.
- a13. Locate the differences in the laboratory procedures of processing removable partial dentures and complete dentures.
- a14. Name the different materials, instruments and devices involved in the construction of complete and removable partial denture as well as their uses.

B. Intellectual skills:

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

- b1. Implement sound knowledge of the biological and technical aspects of complete and removable partial denture and their integration with the clinical procedures which will be taught in the succeeding clinical Prosthodontic courses.
- b2. Propose designs for different classes of removable partial denture.
- b3. Formulate appropriate management for different problems that can happen during denture processing.

C. Professional and practical skills:

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

- c1. Apply all the laboratory procedures related to construction of complete denture.
- c2. Practice different laboratory steps for making Removable partial denture.
- c3. Employ different designs for R.P.D.
- c4. Choose between different materials used in CD & RPD.
- c5. Manage laboratory problems faced during work.

D. General and transferable skills:

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

- d1. Communicate properly with colleagues, technicians and staff members.
- d2. Advocate team work.
- d3. Use contemporary information technology for communication and management of information.

3. Course Contents

Week	Topics
1	Course Orientation, Introduction to prosthodontics
2	Anatomy of the mouth in relation to complete dentures.
3	Principles of complete denture Prosthodontic
4	Impressions and casts used in construction of complete denture [Part I]
5	Impressions and casts used in construction of complete denture [Part II]
6	Record blocks, maxillomandibular relations and ridge relationship
7	Articulators, face bow and mounting
8	Occlusion in complete denture
9	Selection and arrangement of artificial teeth
10	Complete denture wax-up & Post damming.
11	Complete Denture processing, finishing and polishing
12	problems of processing and occlusal disharmony
13	Complete Denture repairs & relief
14	Terminology & Classification of partial denture.
15	Surveying of partially edentulous casts
16	Abutment teeth preparation
17	Direct retainers
18	Indirect retainers
19	Major , minor connectors & finish lines
20	Denture base and teeth for removable partial dentures
21	Designing of RPD and lab prescription
22	Laboratory procedures of making a conventional removable partial denture
23	Denture base and teeth for removable partial dentures
24	Provisional removable partial dentures
25	Revision

4. Teaching and Learning Methods

- 4.1. Didactic lectures.
- 4.2. Demonstration sessions.
- 4.3. Hands on practical sessions.
- 4.4 Student self-assessment.

5. Student Assessment

Assessment Method	Weight	Assessment Length	Schedule	ILOS Covered
Continues assessment	(40 Marks)	CD course continuous assessment (10 marks)	All over the academic year	c1,2,4,5
		RPD course continuous assessment (10 marks)		c 1-5
		Midyear Exam (20 marks)	At midyear	a1-8 b1,3
Practical examination	(60 Marks)	CD (20 marks)	At the end of CD course	c1,2,4,5
		RPD (20 marks)	At the end of RPD course	c1-5
		Spot Exam (CD, RPD) (20 marks)	At the end of the year	c1-5
Final written Exam	(80 marks)	At the end of the year		a1-a14 b1-b3
Oral examination.	(20 marks)	At the end of the year		a1-a14 b1-b3
Total	200 marks			

6. List of references

1. Hassaballa, M.H. Principles of Complete Denture Prosthodontics. 2st Edition. King Saud University-Academic Publishing and Press 2010.
2. Rahn, Arthur O., John R. Ivanhoe, and Kevin D. Plummer. Textbook of complete dentures. PMPH-USA, 2009.
3. Dental Laboratory procedures, Sanjna Nayar , 1st edition, 2016.

* Other Resources;

Periodicals, Web sites, etc.

Facilities required for teaching and learning to achieve the above ILOs

Data show projector, Hands on, dental materials and equipments.

We certify that all of the information required to deliver this course is contained in the above specification and will be implemented

	Course Coordinator	Head of Department
Name	Prof. Dr. Safa'a Asal	Prof. Dr. Ali El-Shiekh
Name (Arabic)	أ. د. صفاء عسل	أ. د. علي الشيخ
Signature		
Date	10/ 09 /2018	

5. Course contents – Course ILOs Matrix

University: Tanta

Faculty: Dentistry

Department: Prosthodontics

Course Code: TDEN 02:04

Course Title: Technology of Prosthodontics

[illegible]

Selection and arrangement of artificial teeth				■									■									■	■	■
Complete denture wax-up &Post damming.					■													■				■	■	■
Complete Denture processing, finishing and polishing						■							■									■	■	■
problems of processing and occlusal disharmony						■																■	■	■
Complete Denture repairs & relief							■															■	■	■
Terminology & Classification of partial denture.	■							■		■												■	■	■
Surveying of partially edentulous casts											■											■	■	■
Abutment teeth preparation													■									■	■	■
Direct retainers													■									■	■	■
Indirect retainers													■									■	■	■
Major , minor connectors & finish lines													■									■	■	■
Denture base and teeth for removable partial dentures									■						■	■			■			■	■	■
Designing of RPD and lab prescription												■			■			■	■		■	■	■	■
Laboratory procedures of making a conventional removable partial denture													■						■	■		■	■	■
Denture base and teeth for removable partial dentures									■						■				■			■	■	■
Provisional removable partial dentures																						■	■	■

Course coordinator:

Prof. Dr. Safaa A. 3asal

Head of Department:

Prof. Dr. Ali M. El-skeikh



Course Specification

Course Title	Technology of Orthodontics	
Course Code	TDEN 02:05	
Academic Year	2018-2019	
Coordinator	Ass .Prof. Ghada El- mehy	
Teaching Staff	- Prof. Safaa Ghobashy- Ass. Prof. Ghada El- mehy – Ass. prof. Atia Abdel wareth – Ass. prof.Mohamed ellithi – Dr.Shymaa Elmarhoumy	
Branch / Level	Second Year	
Semester	First & Second semester	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	25x 1 h lectures
	Practical	25x 2 h practical
Parent Department	Orthodontics	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

Provide student with an appropriate knowledge of craniofacial growth and development and its clinical application, classification and etiology of malocclusion

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1.describe the growth and development of the face and teeth and how it relates to clinical practice.
- a2. describe development of normal occlusion and factors affecting it.
- a3. classify malocclusion.
- a4. list the etiologic factors of malocclusion and explain each one.
- a5. Discuss the unfavorable sequelae of malocclusion.

B. Intellectual skills:

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

- b1. differentiate between different stages of normal occlusion.
- b2. diagnose malocclusion case according to certain data given and etiologic factors for this particular case (photographs & models).

C. Professional and practical skills:

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

- c1. illustrate normal occlusion (Models).
- c2. demonstrate different classes of malocclusion (Models).
- c3. undertake wire bending exercise.
- c4. fabricate removable orthodontic appliance components (Adams Clasps , canine retractor).

D. General and transferable skills:

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

- d1. deal ethically with his or her colleagues and staff.
- d2. use information technology and resources.

3. Course Contents

Week	Topics
1	Introduction (course specification)- aims of orthodontics
2,3,4,5	Growth & Development of the head –Clinical application of growth
6,7,8,9	Development of dentition
10	Normal occlusion
11,12,13	Malocclusion (different classification)
14,15,16	Stomatognathic system and factors affecting normal development of occlusion - Trajectories of force
17,18	Soft tissue morphology
19,20,21,22,23	Etiology of malocclusion (general – local factors)
24,25	Unfavorable sequelae of malocclusion

4. Teaching and Learning Methods

- 4.1 Lectures (power point presentation).
- 4.2 Laboratory practical training.

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion	ILOS COVERED
Written Examination	3h.	At the end of the year	40%	a1-5,b1,2
Oral Assessment	15 min.	At the end of the year	20%	a1-5,b1,2
Practical Examination	2h.	At the end of the year	20%	C1-4
Semester work		Written examination held 1 time /year Practical exam held 1 time/year	20%	a1-2,b1,2 c1-4

6. List of references

Course notes: Hand outs

Essential Books: (Textbooks):

Moyer, RE: Handbook of Orthodontic, 4th ed. 1988.

Graber, TM: Orthodontic principles and technique, 3rd ed, Mosby Co. 1985.

Proffit WR: Contemporary orthodontics. Mosby Co, 2nd ed. 1992.

Graber, TM: Orthodontics current principles and technique, 5th ed, Mosby Co. 2011.

Proffit WR: Contemporary orthodontics. El Sevier Mosby Co, 5th ed. 2012.

Graber, TM: Orthodontic principles and technique, 3rd edition, Mosby Co 2017.

7. Facilities required for teaching and learning

- computer & data show.
- enough orthodontic material.
- well equipped students laboratory.

	Course Coordinator	Head of Department
Name	Ass. Prof. Ghada El- mehy	Prof.Dr. Eman El Shourbagy
Name (Arabic)	أ. د.م غاده الميهى	أ. د. ایمان الشوریجی
Signature		
Date	16/ 9 /2018	16/9 / 2018

5.5 Course contents – Course ILOs Matrix

University: Tanta

Faculty: Dentistry

Department: Orthodontics

Course Code / Course Title: TDEN 02:05 - Technology of Orthodontics

Course Contents	Course outcomes ILOs												
	Knowledge and Understanding					Intellectual		Practical				Transferable	
	A1	A2	A3	A4	A5	B1	B2	C1	C2	C3	C4	D1	D2
Introduction					√							√	√
Growth & Development of the head	√	√										√	√
Morphological development of the dental arches and dentition.	√	√				√		√				√	√
Normal occlusion	√	√				√		√				√	√
Functional adaptation of the stomatognathic system	√	√										√	√
Soft tissue morphology	√	√										√	√
Malocclusion			√				√		√			√	√
Etiology of malocclusion			√	√			√					√	√
Unfavorable sequelae of malocclusion					√		√					√	√
<u>Lab. Work</u>													
- wire bend exercise										√		√	
- components of removable app.										√	√	√	
- Normal occlusion (model)		√				√		√				√	√
- Diagnosis of Malocclusion			√	√			√		√			√	√

Course coordinator:

Ass.Prof . Ghada El- mehy

Head of Department:

Prof .Dr. Eman El Shourbagy



Course Specification

Course Title	Technology of Pediatric dentistry	
Course Code	TDEN 02:06	
Academic Year	2018-2019	
Coordinator	Prof. Arafa Khattab	
Teaching Staff	Prof, Fatma El handawy, Prof. Amina El Hossary ,prof. Nagwa Ghoname, prof , Nahed Abdel mageed ,Dr, Arafa Khattab	
Branch / Level	Second year	
Semester	First & Second semester	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	25 x 1 h lectures
	Practical	25 x 2 h practical
Parent Department	Pediatric dentistry, Oral Health & Preventive Dentistry	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aim of this course is to:

- Familiarize students with the sufficient knowledge of pediatric dental concepts to be able to safely treat pediatric dental patients in clinical settings.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1. Recognize the concepts of pediatric dentistry and be able to initiate & complete the clinical examination, diagnosis and treatment planning for children from infancy to adolescence.
- a2. Identify the value of radiographs for children, and be familiar with proper radiographic technique for the child patient.
- a3. Recognize the normal occlusal relationships of the primary, mixed dentitions.
- a4. Discuss the procedures to prevent malocclusion.
- a5. Explain the pernicious oral habits and their effect.
- a6. Describe mixed-dentition space analysis and several means for creating dental arch space.
- a7. Recognize the principles of child psychological development and the appropriate behavior responses in dental office.
- a8. Identify different behavioral management techniques for children including psychological and pharmacological techniques.
- a9. Describe the term rampant dental caries etiology, clinical picture and prevention of this condition.
- a10. Discuss the dental materials used in pediatric dentistry.

B. Intellectual skills:

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

- b1. Develop a comprehensive, properly sequenced treatment plan and alternative plans based on all diagnostic data.
- b2. Interpret radiographic films.
- b3. Distinguish the normality and abnormality of dentition development at primary and mixed dentition.
- b4. Differentiate between dental caries and early childhood caries.
- b5. Appraise the appropriate behavior management techniques for pediatric patient

C. Professional and practical skills:

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

- c1. Demonstrate primary and mixed dentition stages.(model)
- c2. Fabricate band and loop space maintainer and lingual arches.
- c3. Make removable habit breaking appliances

D. General and transferable skills:

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

- d1. Communicate with the colleagues and staff
- d2. Associate in group activities to develop baseline understanding and implementation of teamwork performance strategies.
- d3. Use information technology and resources.

3. Course Contents

Week	Topics
1	Introduction to Pediatric Dentistry
2,3	Examination of the mouth and other associated structure
4	Radiologic examination
5,6,7	Chronology& Occlusion / Problems in mixed dentition
8,9,10	Preventive orthodontics / Space maintainers
11,12	Interceptive orthodontics / Oral habits
13,14	Cross bite
	Exam
15,16	Class1 anterior crowding / Serial extraction
17,18,19	Psychological behavior management of children
20,21	Conscious sedation &General anesthesia
22	Dental caries in children
23,24	Dental materials used in pedodontic clinic
25	Revision

4. Teaching and Learning Methods

41. Lectures (illustrated with data show, slides)
42. Laboratory and practical sessions

5. Student Assessment

5.1 Assessment methods

Assessment Method	Assessment Length	Schedule	Proportion
Written Exam	3 h	At the end of the year	40 %
Oral Assessment	15 min.	At the end of the year	20 %
Practical Exam	2 h	Mid-April	20 %
Semester work		One written exam + practical evaluation/year	20 %

5.2 Matrix alignment of the measured ILOs/ Assessment methods

Method	Knowledge and understanding	Intellectual Skills	Professional and Practical Skills
Midterm exam	a1-a6	b1-b3	
Practical requirement			c1-c3
Practical exam		b2,b3	c1-c3
Written exam	a1-a10	b1-b5	
Oral exam	a1-a10	b1-b5	

6. List of references

Course notes:

Department note

Essential Books:

-**McDonald RE, Avery DR, Dean JA.** Dentistry for the child and adolescent. 10th edition, St Louis, Missouri: Mosby, Inc; 2016.

Recommended books:

-**Pinkham JR, Casamassimo PS, Fields HW, McTigue DJ, Nowak AJ.** Pediatric Dentistry: infancy through adolescent. 5th edition, Missouri: Elsevier; 2013.

-**Arathi Rao.** Principle and Practice of Pedodontics, 3rd edition Jaypee; 2012

Web sites:

7. Facilities required for teaching and learning

Handout- text books- data show-cast models, dental materials, laboratory equipments.

	Course Coordinator	Head of Department
Name	Prof.Amina El Hosary	Prof. Hatem Amin
Name (Arabic)	أ. د. أمينة الحصري	أ. د. حاتم أمين
Signature		
Date	3/ 9 /2018	3/ 9 /2018

5.5 Course contents – Course ILOs Matrix

University: Tanta
Faculty: Dentistry
Department: Pediatric Dentistry

Course Code / Course title : TDEN 02:07 / Technology of Pediatric Dentistry

Course Contents	Course ILOs Matrix																				
	Knowledge & understanding										Intellectual					practical			Transferable		
	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	b1	b2	b3	b4	b5	c1	c2	c3	d1	d2	d3
Introduction to Pediatric Dentistry	✓										✓								✓	✓	✓
Examination of the mouth and other associated structure	✓	✓									✓								✓	✓	✓
Radiologic examination	✓	✓									✓	✓							✓	✓	✓
Chronology&Occlusion / Problems in mixed dentition	✓		✓	✓		✓					✓		✓			✓			✓	✓	✓
Preventive orthodontics / Space maintainers	✓			✓							✓		✓				✓		✓	✓	✓
Interceptive orthodontics / Oral habits	✓				✓						✓		✓					✓	✓	✓	✓
Cross bite	✓				✓						✓			✓					✓	✓	✓
Class I anterior crowding / Serial extraction	✓						✓				✓			✓					✓	✓	✓
Psychological behavior management of children	✓						✓	✓			✓				✓				✓	✓	✓
Conscious sedation & general anesthesia	✓						✓	✓			✓				✓				✓	✓	✓
Dental caries in children	✓								✓		✓			✓					✓	✓	✓
Dental materials used in pedodontic clinic	✓									✓									✓	✓	✓

Course coordinator:

Head of Department:

Prof.Amina El Hosary

Prof. Hatem Amin



Course Specification

Course Title	Pharmacology	
Course Code	TDEN 02: 07	
Academic Year	2018/2019	
Coordinator	Prof. Dr. Shahinaz Shalaby	
Teaching Staff	Prof. Dr. Shahinaz Shalaby	
Branch / Level	Second year	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	24 x 2 h lectures
	Practical	24 x 1 h practical
Parent Department	Department of Pharmacology – Faculty of Medicine	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- Help target students understand sources of data and how relevant statistics to biomedical field.
- Enable them scientific collection, organization, presentation, analysis and interpretation of research data.
- Make students aware about scientific basis for research methodology.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1- Discuss the pharmacokinetics, the pharmacodynamics and the pharmacotherapeutics of different groups of drugs.
- a2- Describe the adverse effects including acute and chronic toxicity of commonly used groups, and their management.
- a3- Recognize the limitations to the use of drugs such as contraindications and drug interactions.
- a4- Recognize the variations during drug application with regard age, sex and genetic related variations that affect response to drugs.
- a5- Identify the mechanism of action of drugs with regard pathophysiology of diseases which is essential for further proper choice of drugs.
- a6- Discuss the impact of preventive pharmacology in prevent illness.
- a7- Discuss the role, prevalence and limitations of alternative and complementary therapies commonly in use.
- A8- Define the basis of pharmaco-economics.

B. Intellectual skills:

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

- B1. Understand, discuss and analyze the different diseases with especial different pathological situations in order to reach the proper drug of choice based on pharmacological and pathological principles.

C. Professional and practical skills:

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

- c1-Observe and analyze the effect of drugs mainly on animals in vivo and in vitro (on biological tissues) with illustration of different techniques of drug administration through observation of practical experiments.
c2- Write a prescription for selected important diseases.
c3- Audit prescriptions citing multiple drugs.

D. General and transferable skills:

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

- d1- Understand the importance of life-long self-learning and show a strong commitment to it.
d2- Use current I.T. for appropriate drug database to reach information about a specific medication.
d3- Respect ethics related to drug prescription and use specially to drugs liable to produce abuse.

3. Course Contents

Week	Topics
1.2.3	1- General pharmacology
4.5	2- Drug interactions
6.7	3- Autonomic Nervous System
8.9	4- Skeletal muscle relaxants
10.11.12. 13	5- Pharmacology of Blood
15.16	6- Hormones and their antagonists
17.18.19.20	7- Chemotherapy
21	8- Vitamins
22.23.24	9- Locally acting drugs

4. Teaching and Learning Methods

3.1. Lectures.

3.2. Practical modules

3.3. Tutorial and applied modules.

5. Student Assessment

4.1...Student needs to attend at least 75% of the practical and applied classes to sit for the final exam (Shown in the Log Book in which the tutor record his assessment for each student according to his participation in the class.....	to assess attendance criteria.
4.2... Written exams (Short essay, Applied analytical and reasoning questions.	to assess student abilities on having enough knowledge for prototype of drugs and be able to write shortly for them
4.3... Oral examination for whole course.	to assess the student understanding for the correlation between observed experimental effect of drugs and the theoretical knowledge on the pharmacokinetics, pharmacodynamics of drugs.
4.4... Applied modules (Prescription writing / M.C.Qs, give reason questions, matching questions / log book)	to assess . the student intellectual skills (assess the student command on intellectual aspects behind application of drugs in different pathological situations.

Assessment schedule:

1- Mid-year examination (one occasion).

2-Three periodical examinations; two on the first term and one on the second term

3- Presentation of Log book. (for practical and applied classes).

- 4- Practical and Applied modules examination.
- 5- Prescription writing
- 6- Final written examination (1st occasion in may, 2nd occasion in September for students who didn't pass 1st occasion).
- 7- Oral examination (in 2 sessions).

4-Weighting of assessments

Final Written examination	(60%)
Oral examination	(20%)
Practical	0%
Semester Work	20%

Any formative only assessments:

6-List of references

6.1- Course notes

- Department staff members' theoretical books (2 volumes).
- Department staff members' practical /applied manual (2 volumes).

6.2-Essential books (text books)

Essentials of Pharmacology for Dentistry by Tripathi KD (2011)

Pharmacology for dentistry eBook PDF book by Veena Nayak(2015)

6.3- Recommended books

- Pharmacology. Rang H.P., Dale M.M. and Ritter J.M.(eds). Churchill Livingstone.
- Martindale: The extrapharmacopeiae. Reynolds J.E.F.(ed). Royal Pharmaceutical Society.
- Periodicals in pharmacology such as:
 - British Journal of Pharmacology.
 - Journal of Pharmacology and Experimental Therapeutics.
 - Pharmacological Research.
- CDs containing presentations of pharmacological topics are available at the department on request.

6.4-Web sites

- <http://www.pubmed.com>

- <http://www.medscape.com>

Other Resources/Facilities required for teaching and learning to achieve the above ILOs (for example, Field trips)

- Well prepared lectures hall (in the main lecture hall(b) in the building of Faculty of Medicine).
- Well prepared lectures hall for tutorial and small group teaching activities (in lecture hall of the department at the 5th floor of the building of Faculty of Medicine).
- Well-prepared laboratories with the essential equipments for practical activities (in the labs of the department at the 5th floor of the building of Faculty of Medicine).

We certify that all of the information required to deliver this course is contained in the above specification will be implemented

Course coordinator: Dr. Shahinaz Shalaby

Name: Dr. Shahinaz Shalaby

Signature:

Date: 9/2018

Head of Department: Prof. Dr.Amany Abdin

Name: Dr. Amany Abdin.

Signature:

Date: 9/2018

5.5 Course contents – Course ILOs Matrix

University Tanta
Faculty of Medicine
Department of Pharmacology

Course Code / Course Title: TDEN 02: 07 Pharmacology

Course Contents	Course outcomes ILOs														
	Knowledge and Understanding								Intellectual	Practical			Transferable		
	A1	A2	A3	A4	A5	A6	A7	A8	B1	C1	C2	C3	D1	D2	D3
1- General pharmacology	●			●	●	●	●	●		●	●		●	●	●
2- Drug interactions		●	●							●			●	●	
3- Autonomic Nervous System	●		●	●	●				●	●	●	●	●	●	●
4- Skeletal muscle relaxants	●		●	●	●				●	●	●	●	●	●	●
5- Pharmacology of Blood	●			●	●				●	●	●		●	●	
6- Hormones and their antagonists	●		●	●	●				●	●	●	●	●	●	●
7- Chemotherapy	●			●	●	●	●		●	●	●	●	●	●	●
8- Vitamins				●					●	●	●	●	●	●	
9- Locally acting drugs	●		●		●				●	●	●	●	●	●	●

Course coordinator: Prof. Dr. Shahinaz Shalaby

Head of Department: Prof. Dr. Amany Abdin



Third Year



Course Specification of General Internal Medicine

Course Title	General Internal Medicine *,Dermatology and venereology	
Course Code	TDEN 03:01	
Academic Year	2018/2019	
Coordinator	Prof. Waleed Samy	
Teaching Staff	Prof. Waleed Samy Assist. Prof. Abeer Shahba and Assist. Prof. Yasser. M. Abd El Raouf .	
Branch / Level	Third year	
Terms	First & Second terms	
Pre-Requisite	B.D.S	
Course Delivery	Lectures	2 hour/week (total 24 lectures)
	Practical	2 hour/ week (total 24 hours)
Parent Department	Internal Medicine Faculty of Medicine	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- Provide students with an appropriate background covering the common important internal medicine emergencies and diseases.
- Enable the development and application of appropriate professional attitudes, communication and problem solving skills.

2. Intended Learning outcomes (ILOs)

a. Knowledge and understanding:

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

- describe the causes and pathogenesis of the most important related internal medicine problems.
- describe the clinical symptoms and signs of the most important related internal medicine problems.
- identify the appropriate diagnostic tools and therapeutic lines for the most important related internal medicine problems.
- Specify the most important emergency drugs, their indications, doses and modes of administrations which are needed in dental practice.

b. Intellectual skills:

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

- interpret the most important symptoms and signs.
- make decisions regarding common clinical situations using appropriate problem solving skills.

- b.3. interpret X ray, blood picture reports, liver and renal function and other lab and radiological investigations covering the most important medical conditions as stated in the curriculum.

c. Professional and practical skills:

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

- c.1. recognize different Internal medicine emergencies.
- c.2. construct a proper history for a patient.
- c.3. perform an adequate clinical examination for a patient and identify deviations from normal.

d. General and transferable skills:

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

- d.1. communicate effectively with patients.
- d.2. demonstrate appropriate professional attitudes and behaviors in different practice situations.
- d.3. present patient's data in an organized and informative manner.
- d.4. Communicate properly with his colleagues and assistants in the same practical field and other medical fields.

3. Course Contents

Week	Topics
1,2,3,4	1. CARDIOVASCULAR DISEASES
5,6,7, 8	2. GASTROINTESTINAL (GIT), BILIARY AND LIVER DISEASES
9,10,11, 12	3. ENDOCRINE DISEASES
13,14, 15, 16	4. RESPIRATORY DISEASES
17, 18, 19	5. DISEASES OF CENTRAL NERVOUS SYSTEM (NEUROLOGY)
20	6. INFECTIOUS DISEASES
21	7. UROLOGY SYSTEM
22, 23	8. RHEUMATOLOGY
24	9. BLOOD DISEASES (HEMATOLOGY)

4. Teaching and Learning Methods

4.1 Lectures

4.2 Clinical and small group sessions (Clinical demonstrations, practice of skills, interpretation of medical pictures of related diseases and discussions)

4.3 THEORETICAL TOPICS

GIT, BILIARY AND LIVER DISEASES (4 lectures)

Mouth diseases (ulcers and halitosis, 1 lecture)

Upper GIT bleeding (1 lecture)
Malabsorption syndrome and jaundice(1 lecture)
Viral hepatitis and liver cell failure (1 lecture)

CARDIOVASCULAR SYSTEM(4 lectures)

Infective endocarditis and rheumatic fever (1 lecture)
Anticoagulation and antiplatelets medications in dental practice and hypertension (1 lecture)
Heart failure, syncope and shock (1 lecture)
Cardio- pulmonary resuscitation and ischemic heart disease 91 lecture)

ENDOCRINE SYSTEM (4 lectures)

Diabetes mellitus (1 lecture)
Disorders of suprarenal gland (1 lecture)
Osteoporosis and hyperparathyroidism(1 lecture)
Hypocalcemia (1 lecture)

RESPIRATORY SYSTEM(4 lectures)

Pneumonia and pulmonary tuberculosis (1 lecture)
Bronchial asthma and chronic obstructive lung disease(1 lecture)
Respiratory failure and upper airway obstruction(1 lecture)
Hyperventilation syndrome and hemoptysis(1 lecture)

NEUROLOGY (3 lectures)

Headache (1 lecture)
Facial nerve paralysis and trigeminal neuralgia(1 lecture)
Epilepsy and drug addiction(1 lecture)

INFECTIOUS DISEASES (1 lecture)

Human immune deficiency virus (1 lecture)

UROLOGY SYSTEM (1 lecture)

Renal failure (Acute and chronic)(1 lecture)

RHEUMATOLOGY (2 lectures)

Systemic lupus erythematosus and vasculitis (1 lecture)
Rheumatoid arthritis and Behcet's syndrome (1 lecture)

BLOOD DISEASES(1 lecture)

Anemia and leukemias in dental practice(1 lecture)

CLINICAL TOPICS (24 hours)

SYMPTOMATOLOGY(6 hours)
HEAD AND NECK EXAMINATION(6 hours)
BLOOD PRESSURE AND PULSE(2 hours)
UPPER LIMB EXAMINATION(3 hours)
CHEST AND CARDIAC EXAMINATION(4 hours)
LOWER LIMB EXAMINATION (3 hours)

5. Student Assessment: TOTAL MARK FOR INTERNAL MEDICINE IS 83 DEGREES.

Assessment Method	Assessment Length	Schedule	Proportion
Written Examination	2 hours	END OF ACADEMIC YEAR	32%
Oral Assessment	15 minutes	END OF ACADEMIC YEAR	11%
Practical Examination	30 minutes	END OF ACADEMIC YEAR	25%
Semester work	1 hour	MID YEAR	15%

6. List of references

7.1. *Course notes:* Medical book by teaching staff.

Essential Books: DAVIDSON'S PRINCIPLES AND PRACTICE OF MEDICINE, MACLEOD'S CLINICAL EXAMINATION.

- *Web sites:* <http://www.omnimedicalsearch.com/images.html>.
<http://www.dentalcare.com/en-US/dental-education/continuing-education/ce90/ce90.aspx?ModuleName=coursecontent&PartID=6&SectionID=15>.
<http://www.google.com/imghp?hl=en&tab=ii>.

7. Facilities required for teaching and learning: LECTURE ROOM, DATA SHOW, COMPUTER AND EXAMINATION BED.

	Course Coordinator	Head of Department
Name	Prof. Waleed Samy	Prof. Nassret Ayad
Name (Arabic)	أ. د. وليد سامي	أ. د نصرت عياد
Signature		
Date	9/2018	9/2018

5.5 Course contents – Course ILOs Matrix

University: Tanta

Faculty: Medicine

Department: Internal Medicine

Course Code / Course Title: 03:01 General Internal Medicine*, Dermatology and venereology

[illegible]



Course Specification

Course Title	General Internal Medicine, Dermatology and venereology*	
Course Code	TDEN 03:01	
Academic Year	2018-2019	
Coordinator	Prof Rania El Tatawy	
Teaching Staff	Dermatology staff members.	
Branch / Level	Third year	
Semester	Second semester	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	1 h x 14 week
	Practical	- h practical
Parent Department	Dermatology and Venereology	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- provide students with knowledge and skills sufficient to recognize common skin and sexually transmitted diseases with involvement of the oral mucosa.
- help the students to attain a level of clinical competence sufficient to investigate and refer appropriately with dermatological and sexually transmitted cases presenting with oral lesions

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- Discuss the basic theories and principles of basic science that help him to understand dermatological oral diseases; regarding aetiology diagnosis, management, control, and prevention.
- Outline the knowledge about the ethical and legal principles of medical practice
- Develop competence in basic dermatologic oral description.
- Identify the principles of quality assurance in oral medical practice
- Identify the recent advances about emerging and reemerging dermatologic oral conditions and therapeutic modalities in Egypt and worldwide.

B. Intellectual skills:

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

- b.1. Analyze the oral medical and dermatological problems.
- b.2. Interpret common medical problems related to dermatology.
- b.3. Design a plan to deal with risks in oral dermatology.
- b.4. Organize medical decisions according to available information in particular situations
- b.5. Plan and undertake critical analysis and evaluation of an area of practice relevant to their field of work.

C. Professional and practical skills:

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

- c.1. Illustrate effectively with patients with oral lesions presenting with skin and sexually transmitted diseases.
- c.2. Recognize primary and secondary lesions and configuration of skin lesions.
- c.3. Identify the important skin problems with oral involvement that potentially have serious complications or may present as medical emergency; such as erythema multiforme and drug eruption.

D. General and transferable skills:

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

- d.1. Communicate effectively with his colleagues, paramedical and patients with oral lesions presenting with skin and sexually transmitted diseases.
- d.2. Apply self-evaluation and specify his medical educational needs.
- d.3. Use different learning resources to get knowledge and information.
- d.4. Use continuous education

3. Course Contents

Subject	N.of hours
-Infecting oral diseases : Viral , Fungal,& Bacterial	3 hours
-Autoimmune diseases with mucous membrane affection e.g C.T diseases, vesiculobullous diseases , vasculitis (e.g Behcet disease)	2 hours
-Hypersensitivity diseases e.g erythema multiform	2 hours
-Erythematosquamous diseases e.g lichen planus	2 hours
-Miscellaneous e.g Aphthous ulcers , Leucoplakia	1 hours
-STDs with oral mucous membrane affection e.g AIDS , Syphilis , Herpes	4 hours

4. Teaching and Learning Methods

4.1 Illustrated lectures: Formal lectures: by professors and assistant professors.

4.2 Clinical rounds: Clinical demonstration of cases through clinical /small group sessions: by professors, assistant professors, lecturers

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion
Written Examination	1 hours	END OF ACADEMIC YEAR	8%
Oral Assessment	15 minutes	END OF ACADEMIC YEAR	4%
Practical Examination	-	-	-
Semester work	1 hour	MID YEAR	5%

6. List of references

Course notes: Department book

Essential Books:

Web sites: <http://dermatlas.med.jhmi.edu/derm/>

7. Facilities required for teaching and learning

- Black and white board.
- Audiovisual aid (data shows, overhead, and slide projectors).
- Faculty library.

d) Electronic library

e) Clinical facilities:

- General & specialized outpatient clinics
- General & specialized inpatients units (Tanta University Hospitals)

	Course Coordinator	Head of Department
Name	Prof Rania El Tatawy	Prof.El-Sayed Hewedy
Name (Arabic)	أ. د. رانيا التطاوى	أ. د. السيد هويدى
Signature		
Date	9/2018	9/2018

University: Tanta
Faculty: Medicine
Department: Dermatology and
Venereology

Course Code / Course Title: 03:01 General Internal Medicine, Dermatology and venereology*

[illegible]



Course Specification

Course Title	General Surgery *, ENT , Ophthalmology			
Course Code	TDEN 03:02			
Academic Year	2018 -2019			
Coordinator	Prof.dr. Mohamed Abo raya			
Teaching Staff	prof .dr Mohamed Abo raya- dr.Mohamed shalaby Prof.dr.Amel Hashish			
Branch / Level	Third year			
Semester	First and second semester			
Pre-Requisite	B.D.S			
Course Delivery	Lecture 14 x2 h	First semester	14 x 1 h lectures	second semester
	Practical 14 x 2 h		14 x h practical	
Parent Department	General Surgery, Faculty of Medicine , Tanat University			
Date of Approval	Faculty Council on: 19/9/2018			

1. Course Aims

The aims of this course are to:

- provide the student with the appropriate knowledge, and skills, which enable him/her to obtain a detailed history from patients with surgical problems, to carry out a proper clinical examination, and to define the appropriate management plan.
- provide the student with an appropriate background covering various general surgical problems that concern working in the dental field

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- A1.** Describe the etiology, pathogenesis and pathology of important and/ or common surgical diseases.
- A2.** discuss the clinical manifestations, complications, diagnostic modalities, outcome and management plan for common and/or important surgical problems, with special emphasis on emergencies and malignancies.
- A3.** explain the methods of screening and early detection of cancer.
- A4.** discuss the ethical principles that govern decision-making in surgical practice.
- A5.** discuss the principles and practice of preoperative preparation and postoperative care.

B. Intellectual skills:

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

b.1. Data acquisition: *By the end of the course, the student will be able to:*

- Obtain a complete medical history
- perform complete physical examination.
- Utilize sources of information like medical records, patient's family/ friends to augment medical history

b2- Data analysis and problem solving: *By the end of the course, the student will be able to:*

- Interpret patient symptoms and physical findings in terms of their anatomic, pathologic and functional diagnostic significances.
- Identify problems, prioritize them, and generate a list of differential diagnosis for each problem.
- Select the most appropriate and cost-effective diagnostic and therapeutic procedure for each problem.
- Interpret the results of commonly used diagnostic procedures.
- Use the results of all the tests ordered to modify the problem list and the differential diagnosis accordingly.
- Formulate appropriate management plan for each individual patients
- Retrieve data from the literature and formulate it in a short essay discussion
- Combine the clinical and investigational results in clinical problem solving.
- Present patient's data in an organized and informative manner.
- Suspect complications of major diseases beyond the capacities of dentist and determine when to refer them to specialist.

b3- Skills related to treatment strategies: *By the end of the course, the student will be able to:*

- Recognize patients with life threatening surgical conditions and perform appropriate initial therapy.
- Identify and outline management of patients with chronic surgical conditions requiring long-term follow-up, rehabilitation and pain relief.

C. Professional and practical skills:

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

- c.1. Perform routine bedside procedures.
- c.2. Apply the principles of sterile techniques and infection control guidelines.
- c.3. Monitor the effectiveness of therapy by identifying clinical and investigative parameters that can be used in assessing the patient's response to treatment and re-evaluate management plan accordingly.

- c.4. choose the proper investigations related to the patient condition including different laboratory and radiological modalities to reach the diagnosis.
- c.5. Acquire skill in basic technical procedure such a Basic life support (BLS), Air way management & oxygenation and Insertion of IV line

D. General and transferable skills:

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

- d.1. **Communication skills:** *By the end of the course, students should be able to*
 - Conduct sincere and effective patient interviews, properly explain their condition and plan of management, obtain consents and convey bad news in a professional way.
 - Write patient records and properly present them.
 - Communicate, consult and respect the role of other health-care providers.
 - Work effectively and cooperatively in a team.
 - Acquire attitudes necessary for the achievement of high standards of medical practice both in relation to care of patient and to his or her own personal development
- d2- **Life-long learning:** *By the end of the course, students should be able to*
 - Formulate a focused clinical question based on real or hypothetical case, search effectively medical literature using electronic resources and retrieve appropriate information
- d3- **Ethical behavior:** *By the end of the course, students should be able to*
 - Treat the patient properly, respecting his confidentiality and deliver care in an honest, considerate and compassionate manner.
 - Advocate the patient's interests over his own.
 - Maintain a professional image, and practice a responsible attitude.
 - Discuss professional errors in an honest way.

3. Course Contents

No of lectures	Topics
First semester (General Surgery)	
Introduction to surgery	
1	Wounds, wound healing and wound management
1	Surgical infections and nosocomial infection and their management
1	Preoperative assessment and postoperative complications of the surgical

	patient
2	Hemorrhage, hemorrhagic disorders and blood transfusion
1	Blood transfusion
2	Shock
1	Nutrition in surgery
1	Tumor biology and management
Second semester (special Surgery)	
Head and neck surgery	
1	Mouth, cheek and tongue
1	Teeth gums and jaws
1	Salivary glands
2	Thyroid gland
1	Lips & palate
1	Cystic swelling of the neck
1	Solid swelling of the neck

4. Teaching and Learning Methods

4.1 Lectures

4.2 Teaching in surgical wards includes:

- Clinical demonstration
 - **Clinical cases:**
 - History taking and clinical examination.
 - Clinical diagnosis of swellings and tumors.
 - Common conditions like: cellulites, abscess, lipomas etc.
 - Ulcers, sinuses, fistulas.
 - Lesions of the head, scalp, skull, face, lips, tongue, palate, cheek, jaw and floor of the mouth.
 - Parotid swellings.
 - Swellings at the side, in the midline, and in the submandibular triangle of the neck.
 - Thyroid lesions including physiological, nodular, toxic, malignant, and other lesions.
- Bedside teaching.
 - **Bedside skills:**
 - IV, IM and SC injections.
 - Insertion of IV cannula.
 - Simple skin suturing.
 - Staff rounds with active participation of students
 - Observation of bedside procedures

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion
Written Examination	2 hours	END OF ACADEMIC YEAR	30 degrees
Oral Assessment	15 minutes	END OF ACADEMIC YEAR	8 degrees
Practical Examination	30 minutes	END OF ACADEMIC YEAR	13 degrees
Semester work	1 hour	MID YEAR	12 degrees

6. List of references

Course notes: General surgery for dental students power point presentations

Essential Books: Kasr EI-Aini Introduction to Surgery

Web sites:

7. Facilities required for teaching and learning

1- to achieve the above ILOs (for example, Field trips)

Course Coordinator		Head of Department
Name	Prof Dr/ Mohamed Abo raya	Prof Dr/ Gamal Mousa
Name (Arabic)	أد/ محمد ابو رية	أد/ جمال موسى
Signature	9/2018	9/2018

5.5 Course contents – Course ILOs Matrix

Course Code / Course Title: TDEN 03:02 / General surgery

Course Contents	Course outcomes ILOs																
	Knowledge and Understanding						Intellectual			Practical					Transferable		
	A1	A2	A3	A4	A5	A6	B1	B2	B3	C1	C2	C3	C4	C5	D1	D2	D3
Cystic swelling of the neck	●	●	●														
Solid swelling of the neck	●	●	●														

Course coordinator:
Prof. Dr. Mohammed Abo Rayia

Head of Department:
Prof. Dr. Gamal Mousa



Course Specification

Course Title	General Surgery, ENT*, Ophthalmology	
Course Code	TDEN 03:02	
Academic Year	2018/2019	
Coordinator	Dr .Kamal Abdelmoniem Ebied	
Teaching Staff	Dr .Kamal Abdelmoniem Ebied	
Branch / Level	Third year	
Semester	Second semester	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	12x 1 h lectures
	Practical	12 x 1 h practical
Parent Department	Otolaryngology of Department, Faculty of Medicine, Tanta University	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

provide the students with basic informations about, the subjects related to their speciality, in the field of otolaryngology.

2. Intended Learning outcomes (ILOs)

a. Knowledge and understanding:

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

- a.1. identify the effect of some diseases of the ear, nose and throat on oral and dental pathology.
- a.2. discuss effect of some oral procedures or diseases on the ear, nose and throat.

b. Intellectual skills:

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

- b.1. distinguish the mechanisms by which ear, nose and throat might be affected by or affect oral health.
- b.2. identify signs and symptoms of ear, nose and throat diseases related to oral and dental diseases.

c. Professional and practical skills:

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

- c.1. illustrate some lesions in the ear, nose and throat.
- c.2. Diagnose ENT diseases and determine when to refer them to Otolaryngologist.

d. General and transferable skills:

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

- d1. deal ethically with staff, colleagues and patients.
- d2. use information technology

3. Course Contents

Week	Topics
	Nose
	Paranasal sinuses
	Pharynx
	Larynx
	Ear

4. Teaching and Learning Methods

4.1 Lectures.

Practical: Data show presentations including pictures & video clips, live cases and surgeries with interactive discussions through

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion
Written Examination	1hours	END OF ACADEMIC YEAR	4%
Oral Assessment	15 minutes	END OF ACADEMIC YEAR	4%
Practical Examination	30 minutes	END OF ACADEMIC YEAR	12%
Semester work	1 hour	MID YEAR	5%

6. List of references

6.1 CDs loaded with data used during clinical and theoretical teaching.

6.2 **Recommended books** Standard Undergraduate book of the Otolaryngology Department.

Course notes:

Essential Books:

Web sites:

7. Facilities required for teaching and learning

7.1 Computer, data show projector

	Course Coordinator	Head of Department
Name	Dr .Kamal Abdelmoniem Ebied	Prof.dr. Mohamed Nasser Elsheikh
Name (Arabic)	د.كمال عبدالمنعم عبيد	أ. د. محمد ناصر الشيخ
Signature		
Date	9/2018	9/2018

5.5 Course contents – Course ILOs Matrix

University: Tanta

Faculty: Medicine

Department: ENT

Course Code / Course Title: 03:02 General surgery, ENT* and ophthalmology

Course Contents	Course outcomes ILOs							
	Knowledge and Understanding		Intellectual		Practical		Transferable	
	a1	a2	b1	b2	c1	c2	d1	d2
Nose	•	•	•	•	•	•	•	•
Paranasal sinuses	•	•	•	•	•	•	•	•
Pharynx	•	•	•	•	•	•	•	•
Larynx	•	•	•	•	•	•	•	•
Ear	•	•	•	•	•	•	•	•

Course coordinator:

Prof. Dr .Kamal Abdelmoniem Ebied

Head of Department:

Prof.dr. Mohamed Nasser Elsheikh



Course Specification

Course Title	General Surgery, ENT, Ophthalmology*	
Course Code	TDEN 03:02	
Academic Year	2018/2019	
Coordinator	Prof. Dr. Adel Abdo Selima	
Teaching Staff		
Branch / Level	Third year	
Semester	Second semester	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	12x 1 h lectures
	Practical	-
Parent Department	Ophthalmology Department, Faculty of Medicine	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

Enable students to be familiar with normal structure of the eye, to correlate between the eye and dental diseases and be able to face the ophthalmic emergencies.

2. Intended Learning outcomes (ILOs)

a. Knowledge and understanding:

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

- a.1. Describe the basic anatomy of the eye and orbit
- a.2. Describe the clinical symptoms and signs of infectious and allergic diseases of the eye caused by oral sepsis.
- a.3. Describe the cause, pathogenesis and surgical management of the most common diseases that affect the eye related to oral sepsis
- a.4. Define general diseases that affect the eye and its relation to dental diseases and when to refer them to the ophthalmologist

b. Intellectual skills:

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

- b.1. Correlate between the anatomy of the eye and orbit and its relation and communications with the oral cavity
- b.2. Distinguish the signs and symptoms of the eye diseases related to oral diseases and sepsis
- b.3. diagnose serious diseases that may occur after dental diseases or surgery.

c. Professional and practical skills:

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

- c.1. diagnose eye diseases
- c.2. manage eye diseases related to oral diseases and management of eye injury (first aid).

d. General and transferable skills:

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

- d1. deal ethically with staff, colleagues and patients.

3. Course Contents

Topics
1. Basic anatomy and infectious diseases related to the oral cavity 2. Orbital cellulites and its complications 3. Cavernous sinus thrombosis 4. Inflammatory diseases of the uveal tract 5. Optic neuritis 6. Allergic diseases related to oral cavity diseases or surgery (part 1); Phlyecten 7. Allergic diseases related to oral cavity diseases or surgery (part 2); Uveitis 8. Eye surgery (part1); Cataract 9. Eye surgery (part2); Glaucoma 10. Proptosis 11. Exophthalmous 12. Eye injury

4. Teaching and Learning Methods

- 4.1. Lectures: in the lectures hall of the faculty of dentistry
- 4.2. Clinical cases and slides are shown to demonstrate most ophthalmic signs
 - Cases include diseases caused by oral sepsis (phlyectenular keratoconjunctivitis, iridocyclitis, choroiditis and optic neuritis)
 - Effect of oral diseases and sepsis on eye operations (acute congestive glaucoma, corneal ulcer, proptosis and orbital injuries)

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion
Written Examination	1hours	END OF ACADEMIC YEAR	6%
Oral Assessment	15 minutes	END OF ACADEMIC YEAR	3%
Practical Examination	-	-	-
Semester work	1 hour	MID YEAR	3%

6. List of references

Course notes: department book

Essential Books:

Web sites:

7. Facilities required for teaching and learning

7.1 Computer, data show projector

	Course coordinator	Head of the department
Name	Prof. dr. Adel Abdo Selima	Prof. dr. Mohammed Sameh Elshorbagy
Name (Arabic)	أ.د. عادل عبده سليمة	أ.د. محمد سامح الشوربجي
Signature		
Date	9/2018	9/2018

5.5 Course contents – Course ILOs Matrix

University: Tanta

Faculty: Medicine

Department: Ophthalmology

Course Code / Course Title: 03:02 General surgery, ENT and ophthalmology*

Course Contents	Course outcomes ILOs									
	Knowledge and Understanding				Intellectual			Practical		Transferable
	a1	a2	a3	a4	b1	b2	b3	c1	c2	d1
13. Basic anatomy and infectious diseases related to the oral cavity	•						•	•	•	•
14. Orbital cellulites and its complications		•			•	•	•		•	•
15. Cavernous sinus thrombosis		•			•	•	•			•
16. Inflammatory diseases of the uveal tract		•				•	•			•
17. Optic neuritis		•				•	•			•
18. Allergic diseases related to oral cavity diseases or surgery (part 1); Phlyecten		•			•	•	•	•	•	•
19. Allergic diseases related to oral cavity diseases or surgery (part 2); Uveitis		•			•	•	•	•	•	•
20. Eye surgery (part1); Cataract			•							•

Course Contents	Course outcomes ILOs									
	Knowledge and Understanding				Intellectual			Practical		Transferable
	a1	a2	a3	a4	b1	b2	b3	c1	c2	d1
21. Eye surgery (part2); Glaucoma			•							•
22. Proptosis				•				•		•
23. Exophthalmous				•				•		•
24. Eye injury				•				•	•	•

Course coordinator:

Prof. dr. Adel Abdo Selima

Head of Department:

Prof. dr. Mohammed Sameh Elshorbagy



Course Specification

Course Title	Oral Surgery and Anesthesia.	
Course Code	TDEN 03:03	
Academic Year	2018-2019	
Coordinator	Dr. Eman Borg – Dr. Ahmed Elshrief	
Teaching Staff	Prof.Dr. Mohamed Monay Shoshan, Prof.Dr. Abdelfattah Sadaka, Prof.Dr. Mohamed Saad, Prof.Dr. Mohamed Elshal, Prof. Dr. Khaled saad, Dr. Samir Abd elaal, Dr. Mahmoud Khalifa, Dr. Ibrahim Noir, Dr. Ahmed Sanad, Dr. Emad Faheem, Dr. Rafik Ramadan, Dr. Eman Borg, Dr. Ahmed Elshrief, Dr. Mohamed Kamal	
Branch / Level	Third year	
Pre-Requisite	B.D.S	
Course Delivery	Lecture 2 hrs/ week	24 x 2 h lectures
	Practical 2 hrs/ week	26 x 2 h practical
Parent Department	Oral & Maxillofacial Surgery.	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- Provide students with an appropriate foundation of knowledge covering dental anatomy, pharmacology & techniques of local anaesthesia in the oral cavity & maxillofacial region, exodontia & its complications together with recent modalities in each.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a.1. Recognize the basic anatomy and physiology of oral and maxillofacial region.
- a.2. Recognize the different types of local anesthetic drugs and the biotransformation, excretion and systemic action.
- a.3. Identify the indications and contra-indications of dental extraction (systemic and local) and pre-operative assessment before dental extraction.
- a.4. Identify the indications and principles of trans-alveolar extraction.
- a.5. Recognize classification, radiographic evaluation, surgical techniques and postoperative care for impacted teeth (third molars & canines).
- a.6. Review the management of patients with systemic diseases in oral surgery and the use of general anesthesia.

B. Intellectual skills:

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

- b.1. Differentiate between causes of surgical problems for patients and methods of management of each.
- b.2. organize the causes & techniques of exodontia.
- b.3. Plan techniques of local and general Anesthesia anesthesia needed for various conditions in oral & maxillofacial region.

C. Professional and practical skills:

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

- c.1. Sketch basic types of intraoral flaps.
- c.2. Operate teeth extraction.
- c.3. Operate the necessary procedures for controlling complications of oral surgery both general (medical) and local (surgical) intra-operatively and post-operatively.
- c.4. Use the needed surgical armamentarium.
- c.5. Apply different anesthetic techniques clinically.

D. General and transferable skills:

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

- d.1. Manage time, set priorities and work to prescribed time limits
- d.2. Communicate with colleagues and the patients and staff.
- d.3. use information technology and resources.

3. Course Contents

Weeks	Topics
1	Anatomy related to local anesthesia.
2	Neurophysiology.
3	preparation & premedication of the patient.
4	Armamentarium.
5	local anesthetic drugs & vasoconstrictors.
6,7	Techniques of local anesthesia.
	Med-term Exam.
8,9	Complications of local anesthesia.
10,11	General anesthesia.
12	Anatomical considerations of exodontia.
13	General considerations of exodontia.
	Exam

14	Forceps extraction (Intra-alveolar extraction).
15	Techniques for forceps extraction.
16.17	Uses of elevators
	Med term exam
18	Surgical removal of teeth (Trans-alveolar extraction)
19.20	Complications of exodontia.
21.22	Management of patients with systemic diseases in oral surgery.
23.24	Impacted teeth.

4. Teaching and Learning Methods

4.1 Lectures

4.2 Clinical sessions

5. Student Assessment

Assessment Method	Marks	Assessment Length	Schedule	Ilos covered
Written Examination	60	3 Hrs.	At the end of the year (June 2014)	A1-6,b1-3
Oral Assessment	20	15 min for each student	At the end of the year (June 2014)	A1-6,b1-3
Practical Examination	40	Each student performs one of local anesthetic technique on a patient	Mid-April	C1-5
Semester work	30	3 written exams in MCQ form in addition to course work	2 exams in the first semester and one exam in the second semester The course work asses the student clinical performance & attendance during practical sections	A1-6,b1-3,c1-5
	Total = 150			

6. List of references

Course notes: Department book

Essential Books: Peterson, Ellis, Hupp, Tucker, Myron. Contemporary Oral and Maxillofacial Surgery. 6th edition, Missouri: Mosby, 2014.

Web sites: www.eaoms.com

7. Facilities required for teaching and learning

Dental instruments and equipments.
Data show projector, computer and overhead projector.

	Course Coordinator	Head of Department
Name	Dr. Eman Borg Dr, Ahmed Elshrief	Prof. Dr. Mohamed Elshal
Name (Arabic)	د. ایمان برج د. أحمد الشريف	أ. د. محمد الشال
Signature		
Date	9/ 9 /2018	9/ 9 /2018

5.5 Course contents – Course ILOs Matrix

University: Tanta

Faculty: of Dentistry

Department: Oral & Maxillofacial Surgery

Course Contents	Course outcomes ILOs																
	Knowledge and Understanding						Intellectual			Practical					Transferable		
	A1	A2	A3	A4	A5	A6	B1	B2	B3	C1	C2	C3	C4	C5	D1	D2	D3
Anatomy related to local anesthesia.	•	•													•	•	•
Neurophysiology.	•														•	•	•
preparation & premedication of the patient.		•					•								•	•	•
Armamentarium			•					•					•		•	•	•
local anesthetic drugs & vasoconstrictors.		•					•	•	•					•	•	•	•
Techniques of local anesthesia.		•					•		•					•	•	•	•
Complications of local anesthesia.		•				•			•			•		•	•	•	•
General anesthesia.							•		•			•			•	•	•
Anatomical considerations of exodontia.	•						•	•			•				•	•	•
General considerations of exodontia.	•						•	•			•				•	•	•
Forceps extraction (Intra-alveolar extraction).			•	•				•			•				•	•	•
Techniques for forceps extraction.				•	•			•		•	•				•	•	•
Uses of elevators				•	•						•		•		•	•	•
Surgical removal of teeth (Trans-alveolar extraction)					•			•		•	•				•	•	•
Complications of exodontia.			•				•	•			•	•			•	•	•
Management of patients with systemic diseases in oral surgery.						•	•		•						•	•	•
Impacted teeth.						•	•				•				•	•	•

Course coordinator:

Dr. Eman Borg.

Dr. Ahmed Elshrief

Head of Department:

Prof. Dr. Mohamed Elhsal

Course Specification

Course Title	Restorative Dentistry II	
Course Code	TDEN 03:05	
Academic Year	2018-2019	
Teaching Staff	Dr. Wedad Etman, Dr. Thuraia Genaid, Dr. Hussin Yehia, Dr. Mervatsalam, Dr. Ashraf	
Course Coordinator	Prof. Dr. Thuraia Genaid	
Branch / Level	Third year	
Semester	First & Second semester	
Pre-Requisite	B.D.S program	
Course Delivery	Lecture	25x 1h lectures
	Practical	25x 3h practical
Parent Department	Restorative Dentistry	
Date of Approval	Faculty council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- Encourage students to attend the clinic adequately with the previous knowledge of the pre-clinical course.
- Prepare students to apply the proper way for diagnosis.
- Encourage the student for the management of simple cases.
- Prepare students to perform painless restoration.
- Gain the ability to control pre and post operative pain.
- Be able to avoid any health hazards.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1** Identify the steps of infection control in dental clinic.
- a2** Recognize different methods of patient assessment.
- a3** Determine indications, contraindications and preparations of different classes.
- a4** Demonstrate proper patient sheet performance.
- a5** Clarify the conservative approach of tooth restoration.
- a6** Describe clinical steps for restoration of teeth.
- a7** Describe and discuss the basis for selection of different restorative materials.
- a8** Identify different dental materials, instrumentations and health hazards.

B. Intellectual skills:

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

- b1** Categorize the advanced methods of initial caries diagnosis.
- b2** Solve the different restorative problems.
- b3** Select the proper restorative material for each case.
- b4** Plan management for deep carious lesions.

C. Professional and practical skills:

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

- c1 Apply infection control and adjustment of proper chair position.
- c2 Preserve pulp vitality and perform indirect pulp capping procedures.
- c3 Utilize temporization of cavities.
- c4 Apply different bases and liners.
- c5 Perform deep conservative cavity.

D. General and transferable skills:

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

- d1 Communicate with patients and dental team members.
- d2 Deal with computer for recording and perseveration of the patient's information.
- d3 Demonstrate the different clinical managing skills

3. Course Contents:

Week	Topics
1-2	Dental chair and operating positions
3-5	Infection control in dental clinics
6-9	Patient Assessment , Diagnosis and Treatment Planning
10-11	Control of Moisture of Operative field and Separation: - Isolation - Separation -Dental matrices
12	Selection of Restorative Materials: *Requirements of ideal restoration *Factors affecting selection
13-14	Biologic influence of restorative Procedures : * Biologic effect of cavity preparation * Biologic effect of restorative material properties and application
15-16	Management of deep carious lesions
17	Temporization: *Objectives * Materials& techniques
18-19	Pain and Pain Control Management
20-21	Post operative pain and dentin hyper sensitivity
22-23	Glass ionomer restorative material *conventional * modified
24-25	Health Hazards -Hazards of Dental Materials (Toxicity, Sensitivity Hazards of Cavity Instrumentation

4. Teaching and Learning Methods

4.1 Lectures- illustrated with data show presentations and case studies.

4.2 Practical Sessions (Direct contact between the students and their demonstrators and professors).

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion	ILOs coverage
Written Examination	3 hours	At the end of the year	40 %	a1-a8 b1-b4
Oral Assessment	About half hour\group	At the end of the year	15 %	a1-a8 b1-b4
Practical Examination	3 hours	Mid-April	25%	c1-c5
Semester work	1 hour quizzes +practical requirement through the year	Mid term	20 %	a1-a6 b1-b4 c1-c5

6. List of references

Course notes: Separate helpful notes from the different lectures, for each item, or subject.

Essential Books:

- Albers, H.F., *Tooth Colored Restoratives*. Alto Books (2002).
- I Anand Sherwood& L. Lakshmi Narayanan, *Essentials of Operative Dentistry*, JP Medical Ltd, (2010)
- Sturdevant's art and science of operative dentistry. Theodore M. Roberson, HaraldHeymann, Edward J. Swift –(2013)
- Sturdevant's art and science of operative dentistry. Theodore M. Roberson, HaraldHeymann, Edward J. Swift –(2014)
- NishaGarg&AmitGarg., *Text book of Operative Dentistry*. JP Medical Ltd,(2015)

Web sites:

7. Facilities required for teaching and learning

- 7.1 Computer/ Lap top.
- 7.2 Data show.
- 7.3 White board (and markers).
- 7.4 Adequately prepared dental clinics.
- 7.5 Intraoral cameras.
- 7.6 LCDs.

- 7.7 Digital x-ray machines.
- 7.8 Light curing devices.
- 7.9 Modern hand instruments
- 7.10 Amalgamators.
- 7.11 Materials – required by students.
- 7.12 Providing lecture notes and, manuals.

	Course Coordinator	Head of Department
Name	Prof.Dr.Thuraia Genaid	Prof.Dr.Wedad Etman
Name (Arabic)	أ. د. ثريا جنيد	أ. د. وداد عثمان
Signature		
Date	٥/٩/2018	٥/٩/2018

تم اعتماده في مجلس القسم بتاريخ ٥/9/2018

5.5 Course contents – Course ILOS Matrix

University: Tanta

Faculty: Dentistry

Department: Restorative Dentistry

Course Code / Course Title: Restorative Dentistry 3rd year

Course Contents	Course outcomes ILOs																			
	Knowledge and Understanding								Intellectual				Practical					Transferable		
	a1	a2	a3	a4	a5	a6	a7	a8	b1	b2	b3	b4	c1	c2	c3	c4	c5	d1	d2	d3
Dental chair and operating positions		√											√							
Infection control in dental clinics	√												√							
Patient Assessment , Diagnosis and Treatment Planning		√		√														√	√	
Control of Moisture of Operative field , Separation and matricing						√														√
Selection of Restorative Materials					√	√	√			√	√			√		√				√
Biologic influence of restorative Procedures					√									√		√				
Management of deep carious lesions				√								√				√	√			
Temporization															√					
Pain and Pain Control		√			√							√		√		√				√
Post operative pain and dentin hyper sensitivity		√			√							√		√		√		√		√
Glass ionomer restorative material			√		√		√	√			√	√				√				√
Health Hazards	√							√			√							√		√

Course coordinator:
Prof. Dr. Thuraia Genaid

Head of Department:
Prof. Dr. Wedad Etman



Course Specification

Course Title	Fixed Prosthodontics	
Course Code	TDEN 03:05	
Academic Year	2018-2019	
Coordinator	Dr. Amany Korsel	
Teaching Staff	Dr.M.Ayad Dr.M shakal, Dr. A Korsel, Dr.F Hasaneen	
Branch / Level	Third year	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	23 x 1 h lectures
	Practical	26 x 3 h practical
Parent Department	Fixed Prosthodontics	
Date of Approval	Faculty Council on: 19 /9/2018	

1. Course Aims

The aims of this course are to:

- 1-Perfectly implant the ability to carry out the laboratory procedures needed to perform three-unit fixed denture prosthesis.
- 2-Encourage the completion of satisfactory practical skills needed to perform post-core build up.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a.1. Identify how metal-ceramic fixed denture prosthesis could be fabricated.
- a.2. Identify how Duralay could be build-up.
- a.3. Recognize the effect of tooth loss.
- a.4. Identify the different types of bridges.
- a.5. Recognize a thorough understanding of fixed denture prosthesis components (e.g. pontics and connectors).
- a.6. Record a thorough understanding of esthetic fixed prosthesis (e.g. porcelain laminate veneer, resin-bonded restorations, and all-ceramic restorations).
- a.7. Recognize the different techniques used for fabricating all-ceramic restorations.
- a.8. Explain laboratory steps required for fabrication of wax pattern of metal-ceramic fixed partial denture.

B. Intellectual skills:

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

- b.1. Create proper design of an interim fixed denture prosthesis.
- b.2. Plan the laboratory steps needed for the fabrication of custom-made tray.
- b.3. Plan the laboratory steps needed for Duralay build-up.
- b.4. Visualize the design of esthetic fixed partial dentures (e.g. porcelain laminate veneer, resin-bonded restorations, and all-ceramic restorations).

C. Professional and practical skills:

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

- c.1. Apply the practical steps for custom-made tray fabrication.
- c.2. Apply the practical steps for making interim acrylic three-unit fixed partial denture.
- c.3. Apply different laboratory steps for making wax pattern of three-unit metal-ceramic fixed partial prosthesis.
- c.4. Use Duralay for post-core build-up.
- c.5. Compose consequent steps for wax pattern fabrication of metal-ceramic fixed prosthesis.

D. General and transferable skills:

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

- d1. Communicate properly with each other and with colleagues in a team work.
- d2. Communicate with E-learning, self-teaching and recent education technology.
- d3. Present thoughts and ideas to enhance his/her own learning skills.
- d4. Use all resources effectively to continue professional learning and assess personal progress

3. Course Contents

Week	Topics
------	--------

First Semester

1	Curriculum and Grading
2	Tooth Preparations (Revision)
3-4	Effect of tooth loss and types of bridges
5	Primary impression and related procedures
6	Interim restoration (ready-made)
7	Interim restoration (custom-made)
8	Quiz
9-10	pontics
11-12	connectors
13	
14	Revision
15	Mid year exam (Theoretical and Practical)

Second Semester

1-2	Restoration of endodontically treated teeth
3-4	Framework design and metal selection

5-6	Color and shade selection
7	Quiz
8-9	Porcelain application for PFM
10-11	Occlusion
12	Articulation
13	Revision

4. Teaching and Learning Methods

- 4.1 Illustrated lectures
- 4.2 Preclinical sessions (direct communication between students and their demonstrators and staff members)
- 4.3 Lecture notes
- 4.4 Demonstration on CDs and videos
- 4.5 **Requirements:**

1st semester:

- Four bridges teeth preparation (PFM/all ceramic)
- Two custom-made tray
- Two interim 3-unit fixed partial denture
- One wax pattern for 3-unit fixed partial denture

2nd semester

- One 3-unit FPD wax pattern with cut-back on mounted working cast
- One duralay build-up on an anterior tooth
- One duralay build-up on posterior tooth

5. Student Assessment

Method	Duration	Ilos covered	Percentage
Written Examination	3 hours	a1-8,b1-4	40%
Oral Examination	About half an hour /group of 4 students	a1-8,b1-4	15%
Preclinical Examination	3 hours	c1-5	25%
Continous Assessment	1 hour quizzes, requirement throughout the academic year	a1-5-b1,2-c1-5	20%

6. List of references

Course notes: Separate helpful notes for each lecture.

Essential Books:

(a) Contemporary Fixed Prosthodontics by Rosenstiel SF et al., 4th ed., 2006 and 5th ed., 2105

(b) Fundamentals of Fixed Prosthodontics by Shillingburg et al., 1997 and 2015

Supplemental Books:

(a) Philips Science of Dental Materials. 10th ed., WB Saunders, Philadelphia

7. Facilities required for teaching and learning

- 7.1 Computer and/or Lap top.
- 7.2 Data show.
- 7.3 White board and markers.

- 7.4 Adequately prepared laboratories.
- 7.5 Diagnostic and working casts.
- 7.6 Providing lecture notes, manuals and sheets.
- 7.7 LCDs and Intraoral cameras for demonstrators.

	Course Coordinator	Head of Department
Name	Dr. Amany Korsel	Prof Dr. Mahmoud Shakal
Name (Arabic)	أ.د/ أمانى كورسيل	أ.د. محمود شكل
Signature		
Date	14/ 9/2018	14 /9 /2018

5.5 Course contents – Course ILOs Matrix

University: Tanta

Faculty: Dentistry

Department: Fixed prosthodontics

Course Code / Course Title: TDEN 03:05 Fixed prosthodontics

Course Contents	Course outcomes ILOs																				
	Knowledge and Understanding								Intellectual				Practical					Transferable			
	A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	B4	C1	C2	C3	C4	C5	D1	D2	D3	D4
Tooth Preparations (Revision)						√															
Effect of tooth loss and types of bridges	√							√	√		√		√						√	√	√
Primary impression and related procedures			√	√	√	√														√	
Interim restoration (ready-made)									√					√							√
Interim restoration (custom-made)	√				√														√		
Pontics	√							√		√					√		√	√			
connectors						√												√	√	√	√
Restoration of endodontically treated teeth		√									√	√				√					√
Framework design and metal selection	√																				√
Color and shade selection						√												√	√	√	√
Porcelain application for PFM	√							√		√					√		√	√			
Occlusion			√														√				
Articulation	√							√							√		√				√

Course coordinator:
Dr Amany Korsel

Head of Department:
Prof. Dr. Mahmoud Shakal



Course Specification OF Endodontics

Course Title	Technology of Endodontics	
Course Code	TDEN 03:06	
Academic Year	2018-2019	
Coordinator	Ass Prof. Ahmed Labib	
Teaching Staff	Dr. Abeer Darrag, Dr. Ahmad labib, Dr. Neveen Shahin, Dr. walaa Ghoniem, Dr. Dalia El sherif	
Branch / Level	third year	
Semester	First & Second semester	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	1 h lectures
	Practical	2 h practical
Parent Department	Endodontics	
Date of Approval	Council of the Faculty of Dentistry, Tanta University on:19/9//2018	

1. Course Aims

The aims of this course are to:

- Allow the students to understand the meaning of endodontic and its indications, contraindications, and how to choose the technique of root canal preparation and obturation for each case in addition to demonstration the performance of the laboratory steps resulting in the satisfactory completion of successful root canal treatment (Preparation and obturation). In addition to and helping the students to get proper information about the recent advances in root canal obturation materials and techniques.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1. Define what Endodontics is.
- a2. List indications& contraindications of Endodontics
- a3. Describe how to perform successful root canal treatment
- a4. Describe how to perform Root canal preparation using conventional and rotary instruments.
- a5. Describe how to manage errors in Root canal preparation and obturation.
- a6. List Importance of root canal irrigating solution.
- a7. List methods of working length determination and describe them.
- a8. Describe why & how to apply rubber dam during root canal treatment.

B. Intellectual skills:

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

- b1. Design a plan to manage errors in Root canal preparation.
- b2. Design a plan to manage errors in Root canal obturation.
- b3. Design a plan to manage errors in access cavity preparation.
- b4. Select ideal root canal irrigation suitable for each case.
- b5. Select the instrument for practical cases.
- b6. Compare between conventional and rotary root canal preparation.
- b7. Generate ideas about advanced rotary root canal instruments.

C. Professional and practical skills:

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

- c1. Perform access cavity in anterior & posterior teeth.
- c2. Practice proper root canal debridement and irrigation.
- c3. Apply the ideal specific shape to the prepared canals.
- c4. Practice proper root canal obturation of anterior & posterior teeth.
- c5. Use different endodontic instruments efficiently in ideal motion.
- c6. Apply working length determination using radiograph and apex locator.

D. General and transferable skills:

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

- d1. Communicate properly with each other and with colleagues in a team work
- d2. Communicate with their supervisors.
- d3. Respond to patient expectations, desires and attitudes (need and demands) when considering treatment planning and during treatment.
- d4. Examine all resources effectively to continuing professional development and lifelong learning and assess personal progress.

3. Course Contents

Week	Topics
Week no. 1	Endodontic course specification(course aim ,contents ,student assessments , ILOS) and generalized morphological characterization.
Week no. 2 Week no. 3 Week no. 4	Anatomical considerations (internal tooth anatomy)
Week no. 5 Week no. 6	Access cavity preparation
Week no. 7 Week no. 8	Basic and modified endodontic instruments
Week no. 9 Week no. 10	advanced endodontic instruments
Week no. 11	Working length determination (radiograph and apex locators)

Week no. 12	Chemical aids in endodontics
Week no. 13 Week no. 14 Week no. 15 Week no. 16	Biomechanical root canal preparation (hand and rotary)
Week no. 17	Quiz 1
Week no. 18	Tooth isolation
Week no. 19 Week no. 20 Week no. 21 Week no. 22	Conventional and advanced root canal obturation
Week no. 23,24	sterilization

4. Teaching and Learning Methods

A variety of instructional methods will be used in teaching this course include:

- 4.1 Lectures- illustrated with case studies.
- 4.2 Practical Sessions (Direct contact between the students and their demonstrators and professors).
- 4.3 Seminars.
- 4.4 library research.
- 4.5 small group discussions.

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion
Written Examination "final exam"	3 hours	At the end	40 %
Oral Assessment	About half hour \group	At the end	15 %
Practical Examination	3 hours	Mid-April	25 %
Semester work	1 hour quizzes +practical requirement through the year	During 1 st & 2 nd semester	20 %

6. List of references

Course notes: Lecture's handouts.

Essential Books:

(a) Cohen, S. and Burns, R.C, *Pathways of the Pulp* 2016 11th ed.. Mosby.

(b) Grossman, L.I., Oliet, S., and DelRio, C.E., 1981, *Endodontic Practice*. Lea and Febiger.

(c) Ingle, J.L. 6thed, and Taintor, J.F., *Endodontics*. Lea and Febiger.
Selzer, S., and Bender, I.B., *The Dental Pulp—Biologic Considerations in Dental Procedures*.

(d) Walton and Torabinejad, 2009, *Principles and Practice of Endodontics*.
Saunders.

(e) Weine 2009, *Endodontic Therapy*. Mosby.

(F) NishaGarg, *Textbook of endodontics*, 2013, third edition.

7. Facilities required for teaching and learning

- 7.1 Computer/Laptop,
- 7.2 Data show,
- 7.3 White board (markers),
- 7.4 Adequately prepared laboratory,
- 7.5 Materials required by students,
- 7.6 X-Ray machines,
- 7.7 Digital sensors,
- 7.8 Digital printers,
- 7.9 Developing machines,
- 7.10 Providing lecture notes, manuals and sheets.

	Course Coordinator	Head of Department
Name	Ass Prof. Ahmed Labib	Ass Prof. Ahmed Labib
Name (Arabic)	أ.م. أحمد لبيب	أ.م. أحمد لبيب
Signature		
Date	9 / 2018	9 / 2018

5.5 Course contents – Course ILOs Matrix

University: Tanta

Faculty: Dentistry

Course Code / Course Title: TDEN 03:06/ Endodontics

Department: Endodontics

Course Contents	Knowledge								Intellectual							Practical						Transferable			
	A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	C5	C6	D1	D2	D3	D4
Generalized morphological characteristics	√	√																							
Internal tooth anatomy																									
Access Cavity Preparation			√								√					√						√	√	√	
Basic and modified endodontic Instruments				√									√		√			√		√					
Advanced rotary endodontic instruments				√									√		√			√		√					√
Working Length Determination (radiograph – apex locators)			√				√													√		√	√	√	
Chemical Aids in Endodontics						√						√					√								
Biomechanical root canal preparation (hand – rotary)			√	√	√				√					√			√	√				√	√	√	√
Tooth isolation								√																	
Conventional and advanced root canal obturation			√		√					√									√			√	√	√	√
sterilization																									

Course coordinator:

Head of Department:
Ass Prof. Ahmed Labib

Tanta University

Faculty of Dentistry

Department: Oral Medicine, Periodontology, Oral diagnosis & Radiology



Course Specification

Course Title	Oral Diagnosis	
Course Code	TDEN 03:07	
Academic Year	2018- 2019	
Coordinator	Dr Hoda El Gendy	
Teaching Staff	Dr. Hussein Saudi, Dr Hoda El Gendy , Dr. Ebtessam El Zefzaf, Dr Shereen Abdel Moula, Dr Malak Mohammed, Dr. Sahar ghoraba. Dr. Mohammed Abdallah & Dr. Abdel Aziz Saeed	
Branch / Level	Third	
Semester	First and second	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	25 x 1 h lectures
	Practical	24 x 2 h practical
Parent Department	Oral Medicine, Periodontology, Oral diagnosis & Radiology	
Date of Approval – Date of revision	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- Teach the student how to obtain and record a comprehensive history; perform an appropriate physical examination, for oral and extra oral tissue.
- Interpret the findings and organize appropriate further investigations pending their referral to the appropriate department(s) for a comprehensive treatment.
- Diagnose and management various manifestations of facial pain of both dental and non-dental origin.
- Formulate and rationalize a preliminary treatment planning for their patients together with handling of medically compromised patients.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1. Explain dental problems and the principles involved in the management of such problems.
- a2. Define the principles of taking a proper case history, including a medical history, carrying out an oral examination, recognizing deviations from normal, diagnosing oral and dental diseases and formulating a long-term treatment plan and carrying out appropriate treatment or referral if necessary.

- a3. Describe principles of differential diagnosis of swellings of the head and neck.
- a4. Define the theoretical basis of the relationship between general health and disease of the oral cavity and the implications of general diseases on planning dental treatment.

B. Intellectual skills:

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

- b1. Suggest the priority of treatment in respect of patients' needs and requirements.
- b2. Formulate the significant and relevant details from the patient's history and from the social and family history.
- b3. Assess and appraise the significance and effect of drugs and other medicaments, taken by the patient, on dental management.
- b4. Estimate the location, size, shape etc. of localized lesions such as lumps and ulcers using photographs, diagrams and sketches.
- b5. Formulate all relevant factors in the analysis of a patient's presenting problem in order to formulate a rational treatment plan for each patient according to their needs.
- b6. Differentiate the oral manifestations of systemic diseases.

C. Professional and practical skills:

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

- c1. Perform conditions which require referral to another dental or medical colleague for diagnosis or treatment.
- c2. Collect and record a comprehensive history, perform an appropriate physical examination, interpret the findings and organize appropriate further investigations'.
- c3. Collect and record a relevant medical history which identifies the effects of oral disease on medical well-being and the medical conditions that affect oral health and dental treatment.
- c4. Illustrate facial pain of dental and non-dental origin.
- c5. Perform a detailed dental history to include chief complaint and history of present illness; make a general evaluation of a patient's appearance, including the identification of abnormalities in their physical, emotional or mental status.
- c6. Perform a systematic and comprehensive physical and oral examination including head and neck, oral hard and soft tissues,

vital signs and recognize disease states and abnormalities including detrimental oral habits.

c7. Establish and maintain accurate patient records.

D. General and transferable skills:

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

- d1. Use and access a range of learning resources
- d2. Communicate effectively with a wide range of patients & staff
- d3. Evaluate his/her own academic, professional and clinical performance
- d4. Utilize problem-solving skills in a variety of theoretical and practical situations
- d5. Manage time, priorities workloads and recognize and manage emotions and stress

3. Course Contents

Weeks	Topics
1	Patient history
2	Extra-oral examination
3	Intra-oral examination
4	Examination Techniques
5	Lymph nodes examination
6-7	Dental charting
8-9	Laboratory aids to diagnosis
10	Oral biopsy
11-12	Comprehensive treatment plan
13-14	Peripheral oral exophytic lesions
15-16	Advanced diagnostic techniques
17	Basic life support
18	Emergency kit
19	Differential diagnosis of ulcers
20	Differential diagnosis of white lesions
21	Differential diagnosis of dental & non-dental pain
22	Masses in the neck
23-24	Dental Management of the Medically Compromised Patient

4. Teaching and Learning Methods

- Lectures
- Clinical session: Every student is required to submit 4 completed cases to fulfill the clinical requirements of the course.

5. Student Assessment

Assessment Method	Assessment Length	Ilos coverd	Proportion	Degrees
Written Examination	120 minutes	a14,b1-6	35%	30
Oral Assessment	15 minutes	a14,b1-6	20%	10
Practical Examination	30 minutes	C1-7	25%	20
20%	30 minutes	a1-3,b1-3	20%	15

6. List of references

- 7.1. *Course notes:* Handouts are present on the departmental web site at <http://www.geocities.com/tantadiagnosis/>

Essential Books: Oral diagnosis, Oral medicine and treatment planning by Bricker S., Langlais R & Miller C. Lea & Febiger 2012

Web sites: <http://www.geocities.com/tantadiagnosis/>

7. Facilities required for teaching and learning

Clusters of PCs and video-projector, well-equipped small group lecture room,

Course Coordinator		Head of Department
Name	Prof. HODA EL GENDY	Prof. Hussein saudi
Name (Arabic)	أ. د. هدي الجندي	أ. د. حسين سعودي
Signature		
Date	5/9 /2018	5/9 /2018

5.5 Course contents – Course ILOs Matrix

University:Tanta

Faculty:Dentistry

Department:Oral Medicine , Periodontology,Oral Diagnosis and Radiology

Course Code / Course Title: Oral Diagnosis TDEN 04:01

Course Contents	Course outcomes ILOs																					
	Knowledge and Understanding				Intellectual						Practical							Transferable				
	A1	A2	A3	A4	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6	C7	D1	D2	D3	D4	D5
Patient history		√				√						√	√		√		√	√	√			
Extra-oral examination		√	√		√			√							√	√	√	√	√			√
Intra-oral examination		√	√					√							√	√			√			
Examination Techniques		√	√					√								√			√			
Lymph nodes examination		√	√					√		√					√	√			√	√		
Dental charting		√						√	√							√	√		√	√	√	√
Laboratory aids to diagnosis		√	√						√				√				√		√	√	√	
Oral biopsy			√						√		√	√				√	√		√	√	√	
Comprehensive treatment plan	√	√	√	√	√		√			√			√			√	√			√	√	√
Peripheral oral exophytic lesions	√							√				√				√	√	√	√			
Advanced diagnostic techniques		√							√			√							√	√	√	
Basic life support	√							√	√						√	√		√			√	√
Emergency kit	√			√			√									√		√		√	√	√
Differential diagnosis of ulcers		√		√			√	√	√	√		√				√			√	√	√	
Differential diagnosis of white lesions		√		√					√	√		√				√			√	√	√	
Differential diagnosis of dental & non-dental pain				√					√	√		√		√		√			√	√	√	
Differential diagnosis of cysts			√	√					√			√				√			√	√	√	
Masses in the neck			√	√				√		√		√				√			√	√	√	
Dental Management of the Medically Compromised Patient	√			√	√		√		√	√	√	√		√	√	√			√	√	√	√

Course Contents	Course outcomes ILOs																						
	Knowledge and Understanding				Intellectual						Practical							Transferable					
	A1	A2	A3	A4	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6	C7	D1	D2	D3	D4	D5	
practice											√	√	√	√	√	√	√				√	√	

Course Coordinator: Dr Hoda El Guindy

Head of Department: Dr. Hussein Saudy



Course Specification

Course Title	Oral Radiology	
Course Code	TDEN 03:07	
Academic Year	2018-2019	
Coordinator	Prof.Ebtessam El zefzaf	
Teaching Staff	Prof. Lubna El Gammal, Prof Hussein Saudi ,Ass. Prof Malak Mohammed, , Ass.Prof Shereen abdel Moula	
Branch / Level	Third	
Pre- Requisite	B.D.S	
Course Delivery	Lecture	19 x 1 h lectures
	Practical	24 x 2 h practical
Parent Department	Oral Medicine, Periodontology, Oral diagnosis & Radiology	
Date of Approval – Date of revision	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- Aid in diagnosis, treatment planning and management of patients.
- Teach the students to prescribe, take and process appropriate intraoral and dental panoramic radiographs; derive diagnoses by interpreting and relating findings from the history, clinical and radiographic examinations and other diagnostic tests.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- Describe the nature of ionizing radiation, its interaction with tissues and the hazards of ionizing radiation so as to undertake proper radiation protection measures for their patients, staff and themselves.
- a1. Identify the principles which underlie dental radiographic techniques, the equipment employed and the methods of processing films
 - a2. Identify the component parts of the x-ray machine and describe how kilovoltage, milliamperage, exposure time, and source-to-film distance influence the intensity of the x-ray beam.
 - a3. Describe the effects of radiation exposure on cells, tissues, and organs and the basics of patient protection before x-ray exposure.
 - a4. Describe the purpose and use of dental x-ray film holders and devices.
 - a5. Describe in detail film composition and latent image formation.

- a6. Recognize and describe the different types of x-ray film used in dentistry.
- a7. Identify the factors that influence film density and contrast.
- a8. List and discuss the five steps of film processing and basic ingredients of the developer and fixer solution.
- a9. Describe film processing problems that result from time and temperature errors, chemical contamination errors, film handling errors and lighting errors.
- a10. Explain the basic principle of the paralleling technique and bisecting techniques.
- a11. List the advantages and disadvantages of the paralleling technique and bisecting techniques.
- a12. Describe the purpose of the occlusal and bite-wing x-ray examination and the localization techniques.
- a13. Describe the buccal object rule and the right-angle technique.
- a14. Describe the purpose and uses, the fundamentals and the equipment used in panoramic radiography.
- a15. Identify the specific purpose of each of the extraoral film projections.
- a16. Discuss the fundamentals of digital radiography.
- a17. Describe common physical disabilities and what modifications in technique may be necessary during the radiographic examination.
- a18. Identify each normal anatomic landmark as radiolucent or radiopaque.
- a19. Identify and describe the radiographic appearance of the following restorations: amalgam, gold, stainless steel and chrome, post and core, porcelain, porcelain fused-to-metal, composite, and acrylic.
- a20. Identify and describe the radiographic appearance of the following: incipient, moderate, advanced, and severe interproximal, occlusal and rampant caries.
- a21. Describe and identify the radiographic appearance of trauma and pulpal and periapical lesions

B. Intellectual skills:

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

- b1. Formulate appropriate radiographic examination relevant to the diagnostic needs of the patient and interpret and report the result

- b2. Plan specialist imaging techniques appropriate to the diagnostic needs of the patient and be able to interpret the report
- b3. Elaborate the parts of the dental x-ray tube head and the dental x-ray tube.
- b4. Elaborate difference between normal anatomical landmarks and pathological conditions.
- b5. Elaborate difference between radiolucent and radiopaque areas on a dental radiograph.
- b6. Organize the placement of the film, film holder, position-indicating device (PID), and central ray in paralleling and bisecting techniques.
- b7. Elaborate difference between horizontal and vertical alveolar bone loss, between localized, generalized mild, moderate, and severe alveolar bone loss.
- b8. Assess the image quality and apply differential diagnosis to abnormal appearances.

C. Professional and practical skills:

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

- c1. Perform radiographs under close supervision for the patients they are treating.
- c2. Use the modifications in the paralleling technique that are used for a patient with a shallow palate, bony growths, or a sensitive premolar region.
- c3. Illustrate why caries appears radiolucent on a dental radiograph.

D. General and transferable skills:

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

- d1. Respond effectively as members of a team
- d2. Communicate with colleagues and staff

3. Course Contents

Week	Topics
1	Radiation Physics & Characteristics
2	Radiation Biology & Protection
3	Dental X-Ray Equipment & Film

4	Dental X-Ray Characteristics
5-6	Dental X-Ray Film Processing
7	Paralleling Technique
8	Bisecting Technique
9	Bite-wing Technique
10-11	Exposure and Technique Errors
12	Occlusal and Localization Technique
13	Panoramic Radiography
14-15	Extraoral Radiography
16	Digital Radiography
17-18	Normal Anatomy – Intraoral & Panoramic Films
19	Introduction to Radiographic Interpretation & Descriptive Terminology
20	Interpretation of Bone cyst
21-22	Interpretation of Bone tumors
23	Interpretation of Bone diseases
24	Interpretation of Periodontal Disease and Trauma and Pulpal and Periapical Lesions

4. Teaching and Learning Methods

Lectures, Clinical session: Students take radiographs under close supervision for the patients they are treating.

5. Student Assessment

Assessment Method	Assessment Length	Ilos covered	Proportion	Marks
Written Examination	120 minutes	a1-21,b1-8	35%	30
Oral Assessment	15 minutes	a1-21,b1-8	20%	10
Practical Examination	30 minutes	C1-3	25%	20
Semester work	30 minutes	a1-13,b1-3	20%	15

6. List of references

Course notes: Handouts are present on the departmental web site at <http://www.geocities.com/tantaradiology/>

Essential Books: Haring & Jansen Howerton: Dental Radiography: Principles and Techniques, 3rd Edition, Saunders, 2012

Web sites: <http://www.geocities.com/tantaradiology/>

7. Facilities required for teaching and learning

- Panoramic Cephalometric Units, X-ray machines and an automatic processing developer
- Digital system to initiate the electronic patient record
- Dental radiology lab (DRL) to teach students the techniques of intraoral radiography and handling of radiographs. The lab consists of simulation heads for full mouth X-ray techniques.
- CT scan for maxillofacial region
- Ultrasound devices; as non-invasive, inexpensive, and efficient techniques to diagnose the region of TMJ.

	Course Coordinator	Head of Department
Name	Prof. Ebtessam El Zefzaf	
Name (Arabic)	أ.د ابتسام الزفزاف	Prof. Hussein Saudi
Signature		أ. دحسين سعودي
Date	5/9 /2018	5/9 /2018

5.5 Course contents – Course ILOs Matrix

University:Tanta

Faculty:Dentistry

Department: Oral Medicine, Periodontology,Diagnosis and Oral Radiology

Course Code / Course Title:Oral Radiology TDEN 04:01

Course Content S	Course outcomes ILOs																																	
	Knowledge and Understanding																					Intellectual								Practical			Trans ferable	
	A 1	A2	A3	A4	A5	A6	A7	A8	A9	A 10	A 11	A 12	A 13	A14	A15	A16	A17	A18	A19	A20	A21	B1	B2	B3	B4	B5	B6	B7	B8	C1	C2	C3	D1	D2
Radiation Physics & Characteristics	√						√																	√					√					√
Radiation Biology & Protection			√																			√	√							√				√
Dental X-Ray Equipment & Film		√			√	√																					√		√				√	
Dental X-Ray Characteristics		√			√	√	√																√						√	√		√		√
Dental X-Ray Film Processing	√				√	√		√	√														√						√			√		√
Paralleling Technique	√			√						√		√											√				√	√		√				√
Bisecting Technique	√			√						√		√										√	√							√				√
Bite-wing Technique	√			√								√	√	√									√							√				√
Exposure and Technique Errors															√	√							√							√				√
Occlusal and	√										√		√	√			√					√	√							√				√

Course Content S	Course outcomes ILOs																																	
	Knowledge and Understanding																					Intellectual								Practical			Transferable	
	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	A21	B1	B2	B3	B4	B5	B6	B7	B8	C1	C2	C3	D1	D2
Localization Technique																																		
Panoramic Radiography						√								√								√	√			√			√	√			√	√
Extraoral Radiography						√									√							√	√		√	√			√				√	√
Digital Radiography																√	√					√				√			√	√			√	√
Normal Anatomy – Intraoral & Panoramic Films																	√	√														√	√	√
Introduction to Radiographic Interpretation & Descriptive Terminology																	√	√				√	√									√	√	
Interpretation of Bone cyst																	√	√				√	√									√	√	
Interpretation of Bone tumors																	√	√				√	√									√	√	
Interpretation of Bone diseases																	√	√				√	√									√	√	
Interpretation of Periodontal Disease and Trauma and																					√							√				√	√	√

Course Content S	Course outcomes ILOs																																	
	Knowledge and Understanding																					Intellectual								Practical			Transferable	
	A 1	A2	A3	A4	A5	A6	A7	A8	A9	A 10	A 11	A 12	A 13	A14	A15	A16	A17	A18	A19	A20	A21	B1	B2	B3	B4	B5	B6	B7	B8	C1	C2	C3	D1	D2
Pulpal and Periapical Lesions																		√	√		√							√			√	√	√	
practice																													√	√	√		√	

Course coordinator: Dr. Ebtessam El Zefzaf

Head of Department: Dr Hussein Seody



Course Specification

Course Title	Prosthodontics	
Course Code	TDEN 03:08	
Academic Year	2018-2019	
Coordinator	Prof. Dr. Faten Abu-Taleb	
Teaching Staff	Prof. Dr.Hoda Amin, Prof. Dr. Eman Shakel, Prof. Dr. Nahed Kashef, Dr Ali, Prof. Dr. Faten Abu-Taleb, Dr. Amal Salim	
Branch / Level	Third year	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	25 x 2h lectures
	Clinical	24 x 3h clinical
Parent Department	Prosthodontic Department	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aim of this course is to:

Allow the student to gain better and finer knowledge and skills in prosthodontics, services in the diagnosis, treatment planning and the insertion and post insertion of complete denture and maxillofacial prosthodontics and apply these basic sciences in practical work.

2. Intended Learning outcomes (ILOs)

a. Knowledge and understanding:

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

- a1. Arrange steps for diagnosis and treatment planning for complete denture and maxillofacial prosthodontics.
- a2. Identify impression procedures and steps of jaw relation records.
- a3. label factors of esthetics, speech and occlusion for complete denture and maxillofacial prosthodontics.
- a4. Recognize different steps in complete denture and maxillofacial prosthodontics.
- a5. Identify the causes, problems and management of residual ridge.
- a6. Recognize objectives, classifications and problems of complete denture and immediate denture.
- a7. Classify types of maxillofacial defects.
- a8. State objectives and classification of maxillofacial prosthesis.

b. Intellectual skills:

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

- b1. Analyze problems in removable complete denture and maxillofacial prosthesis.
- b2. Hypothesize different treatment options for complete denture and maxillofacial cases.

b3. Formulate different treatment options.

c. Professional and practical skills:

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

- c1. Use recent diagnostic methods and treatment planning of complete dentures and maxillofacial prosthodontics.
- c2. Employ the basics of infection control in the clinical practice.
- c3. Use different treatment options for complete and maxillofacial prosthesis.
- c4. Apply new treatment modalities in the field of prosthodontics.

d. General and transferable skills:

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

- d1. Advocate and enhance student-staff integrity.
- d2. Communicate with colleagues and patients.
- d3. Present different methods of oral health improvement for individuals.
- d4. Illustrate clinical procedures effectively.
- d5. Express control of his/her work load.
- d6. Use contemporary information technology for the management of information and applications related to health care.

3. Course Contents

Week	Topics
1,2	Diagnosis and patient assessment.
3,4	Impression of complete denture.
5,6	Clinical significance of Mandibular movements
7	Clinical uses of Articulators and facebow.
8	Clinical significance of retention of complete denture
9	Clinical significance of support and stability of complete denture
10,11	Recording jaw relation-ship of complete denture.
12	Try in of complete denture.
13	Delivery of complete denture.
14	Occlusal Disharmony
15,16	Complaints of complete denture.
17	Relining and rebasing of complete denture from the clinical point of view
18	Introduction and scope of maxillofacial prosthesis.
19,20	Immediate denture
21,22	Obturator
23	Stent
24	Splint
25	Radiation

4. Teaching and Learning Methods

- 4.1. Didactic lectures.
- 4.2. Demonstration sessions.
- 4.3. Hands on clinical sessions.
- 4.4. Student seminars.

5. Student Assessment

4

Assessment Method	Assessment Length	Ilos covered	Proportion
Written Examination (60 marks)	3 hours	a1-8,b1-3	40 %
Oral Assessment (20 marks)	15 min.	a1-8,b1-3	13.3 %
Practical Examination (40 marks)	1 hour	C1-4	26.7 %
Semester work (30 marks)		a1-4,b1-3,c1-4	20 %
Total Marks :150			

6. List of references

Course notes: Handouts

Essential books (Textbooks):

- Hassaballa MA, Talic YA. Principles of complete denture prosthesis. King Saud University, 2nd ed. 2014.
- Glossary of Prosthodontic terms 2015.
- Manappallil J.J: Complete denture prosthodontics New Delhi, Arya 2nd ed. 2011.
- Text book Of Prosthodontics , Deepak Nallaswamy , Jay pee Brothers Medical Publishers. 2006
- Beumer J, Curtis AT and Firtell ND. Maxillofacial rehabilitation, Prosthodontic and surgical consideration, 2nd ed. 1998.
- Chilian AV, Drane BJ and Standish MS. Maxillofacial prosthetics, multidisciplinary practice, 1971.

Periodicals, Web sites, etc

7. Other Resources/Facilities required for teaching and learning to achieve the above ILOs (for example, Field trips)

Data show projector, computer and overhead projector, dental materials and equipments.

We certify that all of the information required to deliver this course is contained in the above specification and will be implemented

	Course Coordinator	Head of Department
Name	Prof. Dr. Faten Abu-Taleb	Prof. Dr. Ali el shiekh
Name (Arabic)	أ.د. فاتن أبو طالب	أ. د. علي الشيخ
Signature		
Date	1٣/ 9 /2018	1٣/ 9 /2018
تم الاعتماد بمجلس القسم بتاريخ 2018 / ٩ / ١٣		

5. Course contents – Course ILOs Matrix

University: Tanta

Faculty: Dentistry

Department: Prosthodontics

Course Code / Course Title: **TDEN 03:08 / Prosthodontics**

Course Contents	Course outcomes ILOs																				
	Knowledge and Understanding								Intellectual skills			Practical skills				Transferable skills					
	A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	C1	C2	C3	C4	D1	D2	D3	D4	D5	D6
Infection control.	●			●												●					●
Introduction of complete denture													●			●				●	●
Diagnosis and patient assessment.	●		●						●	●				●	●	●		●			●
Impression of complete denture.		●									●	●			●	●		●	●		●
Clinical uses of Articulators and Face bow		●							●							●			●		●
Clinical significance of Mandibular movements					●											●			●		●
Clinical significance of Retention, support and stability of complete denture.			●		●											●			●		●
Recording jaw relation- ship of complete denture.		●	●								●	●				●					●
Try in of complete denture.											●	●				●			●		●
Delivery of complete denture.											●	●				●			●	●	●

Course Contents		Course outcomes ILOs																				
	Knowledge and Understanding								Intellectual skills			Practical skills				Transferable skills						
	A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	C1	C2	C3	C4	D1	D2	D3	D4	D5	D6	
Occlusal Disharmony									●							●	●		●		●	
Complaints of complete denture.									●		●					●	●		●	●	●	
Relining and rebasing of complete denture from the clinical point of view			●		●	●						●				●						●
Introduction and scope of maxillofacial prosthesis.				●			●	●						●		●	●	●				●
Immediate denture						●								●		●	●					●
Obturator							●	●						●		●						●
Splints and Stents.			●													●						●
Radiation							●	●						●		●						●

Course coordinator:

Ass.Prof. Dr. Faten Abu-Taleb

Head of Department:

Prof.Dr. Eman Shakal



Course Specification of Pediatric dentistry

Course Title	Pediatric dentistry *, Oral Health & Preventive Dentistry	
Course Code	TDEN 03:09	
Academic Year	2018-2019	
Coordinator	Prof. Nahed Abdel mageed	
Teaching Staff	Prof. Fatma El handawy, Prof. Amina El Hossary, Prof. Nagwa Ghoname, Prof. Nahed Abdel mageed, Dr. Arafa Khattab .	
Branch / Level	Third year	
Semester	One academic year	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	25 x 1 h lectures
	Practical	25 x 3 h clinical
Parent Department	Pediatric dentistry, Oral Health & Preventive Dentistry	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- Guide the students through a cascade of clinical skills that will enable them to properly examine, diagnose & manage oral problems and disease in children including patients with special needs.
- Familiarize the students the scientific and effective thinking and problem solving skills for patient care

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1. Identify the differences between primary and permanent teeth.
- a2. Recognize the basic principles of operative dentistry for primary teeth including the principles of preparation, adaptation & cementation of successful stainless steel crowns.
- a3. Describe appropriate management of vital and non-vital primary and young permanent teeth.
- a4. Discuss trauma to the anterior teeth in both primary and young permanent teeth and their management.
- a5. Recognize childhood disabilities & medical disorders and their management in the dental office

- a6. Recognize the principle of ethics, dental ethics obligation and medico-legal aspects in dental practice.
- a7. Describe rational, safe dose & techniques of local anesthesia for pediatric patient
- a8. Describe minor oral surgical procedures & demonstrate the extraction techniques for primary teeth
- a9. Identify the gingival and periodontal diseases in children.
- a10. Identify the component of dental practical management.
- a11. Discuss the various developmental dental anomalies and their management.

B. Intellectual skills:

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

- b1. Organize patient's information in a scientific and effective manner, to assist in critical thinking and problem solving for patient care.
- b2. Criticize proper restorative modalities for anterior and posterior primary teeth.
- b3. Formulate an ideal treatment plan and suggest alternative one for treatment of traumatic anterior teeth in children.
- b4. Analyze the medico-legal aspect in dental practice
- b5. Differentiate between different gingival diseases affecting the children.
- b6. Assess the developmental dental anomalies & their management
- b7. Categorize the successful dental practice management

C. Professional and practical skills:

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

- c1. Apply local anesthesia to control pain during clinical procedures.
- c2. Perform pulp procedures for primary teeth.
- c3. Perform various restorations for carious primary teeth.
- c4. Use the appropriate restorative materials for patient comfort, function and esthetics.
- c5. Practice exodontia for children.

D. General and transferable skills:

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

- d1. Enhance student – staff and student - patient communication.
- d2. Provide the appropriate management and/or referral of pediatric patients.
- d3. Practice with the children and their parent with accepted ethical behaviors and self confidence manner.

- d4. Use information technology and resources.
- d5. Establish priorities to accomplish stress management.
- d6. Recognize the quality assurance in dentistry

3. Course Contents

Week	Topics
1,2,3	Restorative dentistry in children
4	Stainless steel crown procedures.
5,6, 7	Pulp therapy in primary and young permanent teeth
8,9,10	Management of Traumatic injuries to anterior teeth
11,12,13	Dental management of children with special needs
14	Practice management
	Exam
15,16	Dental ethics
17	Pain control
18, 19	Exodontia
20,21,22	Gingival and periodontal diseases in children
23,24	Developmental anomalies of dentition
25	Revision

4. Teaching and Learning Methods

- 4.1 Lectures (illustrated with data show, slides).
- 4.2 Clinical demonstration
- 4.3 Student clinical activity for cases under staff members supervision
- 4.4 E-learning : <http://cms2.nelc.edu.eg>

5. Student Assessment

5.1 Assessment methods

Assessment Method	Assessment Length	Schedule	Proportion
Written Exam	3h	At the end of the year	40 marks (32%)
Oral Exam	15 min.	At the end of the year	15 marks (12%)
Clinical Exam	3h	Mid-April	50 marks (40%)
Semester work		One written exam and clinical requirements during the year	20 marks (16%)

5.2 Matrix alignment of the measured ILOs/ Assessment methods

Method	Knowledge and understanding	Intellectual Skills	Professional and Practical Skills
Midterm exam	a1-a4	b1-b3	
Clinical requirement			c1-c3
Clinical exam		b1-b3	c1-c3
Written exam	a1-a6	b1-b5	
Oral exam	a1-a6	b1-b5	

6. List of references

Course notes:

Department note

Websites

E- Learning of Pedodontic course at: <http://cms2.nelc.edu.eg>

Essential Books:

-Arathi Rao. Principle and Practice of Pedodontics, 3rd edition Jaypee;2012

-McDonald RE, Avery DR, Dean JA. Dentistry for the child and adolescent. 10th edition, St Louis, Missouri: Mosby, Inc; 2016.

Recommended books:

-Pinkham JR, Casamassimo PS, Fields HW, McTigue DJ, Nowak AJ. Pediatric Dentistry: infancy through adolescence. 5th edition, Missouri: Elsevier; 2013.

7. Facilities required for teaching and learning

- Dental materials.
- Extra dental unites.
- Instruments for dental clinic.

Course Coordinator		Head of Department
Name	Prof. Nahed Abdel mageed	Prof. Hatem Amin
Name (Arabic)	أ.د. ناهد عبد المجيد	أ.د. حاتم أمين
Signature		
Date	3/ 9 /2018	3/ 9 /2018

5.5 Course contents – Course ILOs Matrix

University : Tanta
Faculty : Dentistry
Department : Pediatric D

Course Code / Course title : TDEN 03:09 / Pediatric dentistry*, Oral Health & Preventive Dentistry

Course contents	Course ILOs Matrix																												
	Knowledge & understanding											Intellectual							practical					Transferable					
	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	a11	b1	b2	b3	b4	b5	b6	b7	c1	c2	c3	c4	c5	d1	d2	d3	d4	d5	d6
Restorative dentistry in children	√	√										√	√						√		√	√		√	√		√	√	√
Stainless steel crown procedures		√										√	√						√		√	√		√	√		√	√	√
Pulp therapy in primary&young permanent teeth			√									√	√						√	√	√	√		√	√		√	√	√
Management of traumatic injuries to anterior teeth				√								√	√	√					√		√	√		√	√		√	√	√
Dental management of children with special needs					√							√							√		√	√		√	√		√	√	√
Practice management										√								√	√					√	√		√	√	√
Dental ethics						√									√									√	√	√	√	√	√
Pain control							√												√					√	√		√	√	√
Exodontia							√	√				√							√				√	√	√		√	√	√
Gingival & periodontal diseasesin children									√			√				√						√		√	√		√	√	√
Developmental anomalies of dentition											√	√					√					√		√	√		√	√	√

Course coordinator:

Prof. Nahed Abdel mageed

Head of Department:

Prof. Hatem Amin



Course Specification

Course Title	Pedodontics, Oral health and preventive Dentistry*	
Course Code	TDEN 03:09	
Academic Year	2018-2019	
Coordinator	Prof. Hatem Amin	
Teaching Staff	Prof. Hatem Amin Dr Ahmed Eldosoky Dr Mohammed Hassan Dr Hosam Maher	
Branch / Level	Third year	
Semester	First & Second semester	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	25 x1 h lectures
Parent Department	Pedodontics, Oral health and preventive Dentistry	
Date of Approval	Faculty Council on: 19 / 9 / 2018	

1. Course Aims

The aims of this course are to:

- Provide the dental students with a better understanding of the patients who should be treated as a part of a community rather than specific cases requiring treatment.
- To help the dental students to recognize community health problems and to suggest approaches to be taken for their correction.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1. Recognize the rationales of infection control in dentistry
- a2. Review the development and maintenance of community dentistry.
- a3. Identify Epidemiology of oral diseases (dental caries and periodontal diseases).
- a4. List preventive strategies for both dental caries & periodontal diseases at the individual and community levels.
- a5. List preventive strategies for both dental caries & periodontal diseases, both office based and home based methods.
- a6. Recognize principles and techniques of topical fluoride & fissure sealant application.
- a7. List indications and steps of Atraumatic Restorative Treatment (ART) and Preventive Resin Restoration (PRR).
- a8. Recognize the rationales of forensic dentistry
- a9. Review the development and future of forensic dentistry.
- a10. List Oral conditions of elders

B. Intellectual skills:

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

- b.1. Organize appropriate infection control measures.
- b.2. Assess dental caries risk
- b.3. Formulate dental caries preventive regime.
- b.4. Assess periodontal disease risk
- b.5. Formulate periodontal disease preventive regime.
- b.6. Formulate preventive programs for the population including groups with special needs.
- b.7. Formulate preventive programs for geriatrics

C. Profesional and practical skills:

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

D. General and transferable skills:

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

- d1. Adopt ethical standards in oral health programs and activities.
- d2. Utilize available recourses for continuing education and development of the profession.
- d3. Adopt the recent information technological modalities in communication and practice management.

3. Course Contents

week	Topic	No of Hours
1	Orientation	1
2	Infection control (part 1)	1
3	Infection control (part 2)	1
4-5	Epidemiology of Dental caries	2
6	Fissure Sealant	1
7	Measurement of Dental Caries	1
8	Caries Risk Assessment and Caries Activity Testing)	1
9-10	Fluoride	2
11	Dental Fluorosis	1
12-13	Prevention of Dental Caries	2

	Examination	
14	Periodontal Disease Risk Assessment	1
15-16	Epidemiology of Periodontal Disease	2
17	Measurement of Periodontal Disease	1
18-19	Prevention of Periodontal Disease	2
20-21	Minimal intervention dentistry Oral	2
22	Health Care for Special Groups	1
23	Geriatric dentistry	1
24-25	Forensic dentistry	2
	Examination	

4. Teaching and Learning Methods

4.1 illustrated audio-visual aided lectures.

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion
Written Examination	3 hs	At the end of the year	53.3 %
Oral Assessment	15 min	At the end of the year	20 %
Semester work and activities	1 h	At the end of the first term	26.7 %

6. List of references

Textbooks:

Dental practice and community (Burt-Ecland, 2014)
Primery preventive dentistry (Harris and Christian, 2005)
Prevention of oral disease

Journals:

Journal of dental hygien
Journal of dental research
Journal of caries research
Journal of periodontal disease
Community dental health journal

Websites:

www.cdjournal.org/journals
www.adha.org/jdh/guidelines.htm
www.jar.sagepub.com

Hand out from staff members.

Essential books (Textbooks): J.B of preventive community dentistry (Joseph John) 2006.

7. Facilities required for teaching and learning

Data show

	Course Coordinator	Head of Department
Name	Dr Ahmed Eldosoky	Prof. Amin. H
Name (Arabic)	د. أحمد الدسوقي	أ. د. حاتم أمين
Signature		
Date	3/ 9 /2018	3/ 9/2018

5.5 Course contents – Course ILOs Matrix

University: Tanta
Faculty: Dentistry
Department: pedodontics

Code / Course Title: TDEN TDEN 03:09 / Pedodontic Oral health and preventive Dentistry *

Course Contents			Knowledge and Understanding									Practical							Transferable		
	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10		B1	B2	B3	B4	B5	B6	B7	D1	D2	D3
Introduction		√																	√	√	√
Infection control	√																		√	√	√
Epidemiology of Dental caries			√									√							√	√	√
Measurement of Dental Caries													√						√	√	√
Fissure Sealant				√	√	√													√	√	√
Fluoride				√	√	√								√					√	√	√
Dental Fluorosis																			√	√	√
Caries Risk Assessment and Caries Activity Testing													√						√	√	√
Atraumatic Restorative Treatment (ART) and Preventive Resin Restoration (PRR)				√	√		√												√	√	√
Prevention of Dental Caries				√	√									√					√	√	√
Epidemiology of Periodontal Disease		√	√																√	√	√
Measurement of Periodontal Disease																			√	√	√
Periodontal Disease Risk Assessment															√				√	√	√
Prevention of Periodontal Disease				√	√											√			√	√	√
Oral Health Care for Special Groups				√	√									√			√		√	√	√
Forensic dentistry								√		√									√	√	√
Minimal intervention dentistry				√	√		√												√	√	√
Geriatric dentistry										√								√	√	√	√

Course coordinator: Prof. Hatem Amin

Head of Department: Prof. Hatem Amin



Course Specification

Course Title	Orthodontics	
Course Code	TDEN 03:10	
Academic Year	2018-2019	
Coordinator	Prof. Safaa Ghobashy	
Teaching Staff	Prof. Safaa Mokhtar - Prof. Mahmoud El Shenawy- Prof. Safaa Ghobashy - Dr. Nahla Goma - Dr. Neveen Fakhry	
Branch / Level	Third year	
Semester	First & Second semester	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	25 x 1 h lectures
	Practical	25 x 2 h practical
Parent Department	Orthodontics	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- Provide student with an appropriate knowledge of biology of tooth movement and principles of orthodontic appliances.
- Enable students to perform an initial orthodontic diagnosis and make appropriate referrals based on the case assessment.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1. determine methods of examination of orthodontic case.
- a2. List uses of x-rays in orthodontics.
- a3. describe the mechanism of orthodontic tooth movement and factors influencing it.
- a4. determine treatment modalities and how it relates to clinical application (interceptive and corrective).
- a5. describe the basic principles of the types of orthodontic appliances , the indication for their use and their advantage and disadvantages.
- a6. identify the basic elements of simple orthodontic appliances for minor tooth movement .
- a7. List methods of space gaining .
- a8. discuss the concepts of extraction in orthodontics.
- a9. identify anchorage in orthodontics.
- a10. Discuss retention and relapse.
- a11. discuss materials used in orthodontics.

B. Intellectual skills:

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

- b1.**analyze and interpret cephalometric tracings.
- b2.**diagnose a case according to certain data given, etiologic factors for this particular case and design treatment plan of simple cases (photographs, models, cephalometric analysis).

C. Professional and practical skills:

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

- c1.** demonstrate normal occlusion (Models)
- c2.** illustrate different classes of malocclusion (Models)
- c3.** illustrate different orthodontic records .
- c4.** identify the landmarks commonly used in cephalometry
- c5.** undertake a simple cephalometric analysis with interpretation of the results
- c6.** fabricate removable orthodontic appliance components (short labial , finger and Z spring)
- c7.** demonstrate different components of removable and fixed orthodontic appliances.

D. General and transferable skills:

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

- d1.**deal ethically with his or her colleagues and staff.
- d2.**improve diagnostic capability.
- d3.** use information technology and resources.

3. Course Contents

Week	Topics
1,2,3,4	Orthodontic Examination and diagnosis
5,6	Uses of x-rays in orthodontics
7,8,9	Biology of tooth movement
	Exam
10,11,12,13	Interceptive orthodontics and Minor tooth movement
14,15,16,17,18	Principles of orthodontic Appliances, Methods of space gaining, Therapeutic extraction
19,20	Anchorage
21,22,23	Retention& relapse
24	Materials used in orthodontics

4. Teaching and Learning Method

- 4.1 Lectures (power point presentation).
- 4.2 Laboratory practical training.
- 4.3 Case study.
- 4.4 Seminars .

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion	ILOS Covered
Written Examination	3h	At the end of the year	40%	a1-11,b1,2
Oral Assessment	15min.	At the end of the year	13%	a1-11,b1,2-
Practical Examination	2h	At the end of the year	27%	C1,7
Semester work		Written examination held once/year Practical exam held once/year	20%	a1-3,b1,2-c1-6

6. List of references

Course notes: **Hand outs**

Essential Book **(Textbooks):**

Handbook of Orthodontic, 4th ed. 1988.

Graber, TM: Orthodontic principles and technique, 3rd ed, Mosby Co. 1985.

Thurrow Rc: Edgewise orthodontics, Mosby co, 4th ed.1982.

Proffit WR: Contemporary orthodontics. Mosby Co, 2nd ed. 1992.

Adams CP: The design and construction of removable orthodontic appliances.

Bristol: John Wright, 3rd ed. 1964.

Graber, TM: Orthodontics current principles and technique, 5th ed, Mosby Co. 2011.

Proffit WR: Contemporary orthodontics. El Sevier Mosby Co, 5th ed. 2013.

Sandeep Goyal: Text book of orthodontics. 1st edition , 2015.

Graber, TM : Orthodontic principles and technique , 3rd edition ,Mosby Co 2017.

7. Facilities required for teaching and learning

-computer& data show

- enough orthodontic material.

- well equipped students laboratory.

	Course Coordinator	Head of Department
Name	Prof. Dr. Safaa Ghobashy	Prof.Dr. Eman El-Shourbagy
Name (Arabic)	أ.د. صفاء غباشي	أ.د. ايمان الشوربجي
Signature		
Date	16/9/ 2018	16/9/ 2018

5.5 Course contents – Course ILOs Matrix

University: Tanta

Faculty: Dentistry

Department: Orthodontics

Course Code / Course Title: TDEN 03:10 - Orthodontics

Course Contents	Course outcomes ILOs																						
	Knowledge and Understanding											Intellectual		Practical							Transferable		
	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	B1	B2	C1	C2	C3	C4	C5	C6	C7	D1	D2	D3
Orthodontic Examination and diagnosis	√											√	√	√	√	√						√	√
Uses of X-rays in orthodontics	√	√										√	√			√	√	√				√	√
Biology of tooth movement			√																				√
Preventive and interceptive orthodontics				√									√						√			√	√
Minor tooth movement						√													√				√
Principles of orthodontic Appliances					√	√													√	√			√
Methods of space gaining							√	√															√
Therapeutic extraction				√				√															√
Anchorage									√											√			√
Retention &relapse					√					√									√				√
Material used in orthodontics											√									√			√
<u>Lab. Work</u>																							
- Diagnosis of normal occlusion and malocclusion	√												√	√	√						√	√	√
- Components of removable app.					√														√		√		√
- Cephalometric analysis .	√	√										√	√			√	√	√			√	√	√
- Fixed orthodontic app. recognition					√															√	√		√

Course coordinator:
Prof. Dr. Safaa Ghobashy

Head of Department:
Prof . Dr. Eman El Shourbagy

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Fourth Year

Course Specification

Course Title	Restorative Dentistry III	
Course Code	TDEN 04:01	
Academic Year	2018-2019	
Teaching Staff	Dr.Ali Ibrahim, Dr.Hussein Yehia, Dr.Mostafa Hasan, Dr.Wedad Etman, Dr.Thuraia Genaid,	
Coordinator	Prof. Dr.Ali Ibrahim	
Branch / Level	Fourth year	
Semester	First & Second semester	
Pre-Requisite	B.D.S program	
Course Delivery	Lecture	25 x 2 h lectures
	Practical	25 x 4 h practical
Parent Department	Restorative Dentistry	
Date of Approval	Faculty council on 19/9/2018	

1. Course Aims

The aims of this course are to:

- Encourage the student to deal with the new techniques and advanced concepts in the restorative dentistry.
- Integrate the recent procedures & dental materials to prevent manifestations of restoration failure.
- Enable the student to find out different problems providing them with their proper solutions.
- Encourage student to apply advanced procedures to obtain proper esthetics.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a.1. Recognize the recent modification in direct restorative materials.
- a.2. Recognize how to manage deep carious lesions.
- a.3. Memories the management of badly broken-down vital teeth.
- a.4. .Identify the non carious lesions.
- a.5. Identify the advanced method of caries risk assessment and control.
- a.6. Recognize conservative treatment modalities
- a.7. Recognize the advanced management techniques for the carious & non-carious lesions.
- a.8. Describe the causes and management of failure of direct dental restoration.

B. Intellectual skills:

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

- b1.** Evaluate every clinical step by sharing, discussing with supervisors or colleges.
- b2.** Solve different clinical problems.
- b3.** Choose the proper treatment plan for each case.
- b4.** Select the ideal advanced restorative technique.
- b5.** Appraise different restorative failure manifestation.

C. Professional and practical skills:

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

- c1.** Utilize the proper steps to obtain successful restorations .
- c2.** Apply the advanced conservative modalities of tooth preparation.
- c3.** Apply the essential esthetic measures .
- c4.** practice the pulp vitality tests.
- c5.** Manage the deep carious lesions.
- c6.** Manage badly destructed vital teeth.
- c7.** Manage failed dental restorations .

D. General and transferable skills:

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

- d1.** Apply all the skills with full self-confidence.
- d2.** Demonstrate Student-patient & student-student communication skills.
- d3.** Demonstrate clinical management of esthetic procedures skills.
- d4.** Act as a team work.

3. Course Contents

Week	Topics
Week1-4	Adhesion and Adhesive Material *Definition *Factors affecting *Mechanism of action *Generations of Adhesive Material
Week 5-6	Applied composite resins
Week 7-8-9	Caries management *Non invasive *Micro invasive *Minimally invasive
Week 10-11-12	Management of discolored teeth *bleaching *lamine * Micro abrasion

Week13-14	*Esthetic consideration
Week 15-16-17	Etiology, diagnosis and management of non-carious lesion: (non-esthetic & esthetic restorative methods)
Week 19-20-21	Management of badly destructed teeth *Tooth preparation *retention methods *pin retained restoration *bonded restoration *tooth colored inlay & onlay
Week 22-23	Microleakage of dental restoration *Etiology *Manifestations *prevention
Week 24-25	Failure of dental restorations *Manifestations *Etiology *Management of failed dental restorations

4. Teaching and Learning Methods

4.1 Lectures- illustrated with case studies.

4.2 Practical Sessions (Direct contact between the students and their demonstrators and professors).

4.3 Clinical sessions, discussing treatment options to choose the best treatment plan.

4.4 25 clinical cases of the out patient clinic of Conservative dentistry department.

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion	ILOS coverage
Written Examination	3 hours	At the end of the year	40%	a.1 –a.8 b.1 –b.5
Oral Assessment	About half hour \group	At the end of the year	15%	a.1 –a.8 b.1 –b.5
Practical Examination	3 hours	Mid-April	25%	c.1 –c.7
Semester work	1 hour quiz +practical requirement through the year	During 1 st & 2 nd semester	20%	a.1 – a.4 b.1 –b.3 c.1 –c.7 d.1 –d.2

6. List of references

Course notes: Separate helpful notes from the different lectures, for each item, or subject.

Essential Books:

- Albers, H.F., *Tooth Colored Restoratives*. Alto Books (2002).
- I Anand Sherwood & L. Lakshmi Narayanan, *Essentials of Operative Dentistry*, JP Medical Ltd, (2010)
- Nisha Garg & Amit Garg., *Text book of Operative Dentistry*. JP Medical Ltd, (2015)
- Sturdevant's art and science of operative dentistry. Andre V. Ritter. Leew. Boushell. Ricardo Walter- (2019)

Web sites:

7. Facilities required for teaching and learning

- 7.1 Computer/ Lap top.
- 7.2 Data show.
- 7.3 White board (and markers).
- 7.4 Adequately prepared dental clinics.
- 7.5 Intraoral cameras.
- 7.6 LCDs.
- 7.7 Digital x-ray machines.
- 7.8 Light curing devices.
- 7.9 Modern hand instruments
- 7.10 Amalgamators.
- 7.11 Materials – required by students.
- 7.12 Providing lecture notes, manuals and sheets.

	Course Coordinator	Head of Department
Name	Prof. Dr .Ali Ibrahim	Prof. Dr .Wedad Etman
Name (Arabic)	أ. د. علي إبراهيم	أ. د. وداد عثمان
Signature		
Date	5\9/2018	5/9/2018

تم اعتماده في مجلس القسم بتاريخ 5\9\2018

Course contents – Course ILOs Matrix

University: Tanta

Faculty: Dentistry

Department: Restorative Dentistry

Course Code / Course Title: Restorative Dentistry 4th year (2018-2019)

Course Contents	Course outcomes ILOs																			
	Knowledge and Understanding								Intellectual					Practical						
	a1	a2	a3	a4	a5	a6	a7	a8	b1	b2	b3	b4	b5	c1	c2	c3	c4	c5	C6	C7
Adhesion & Adhesive Materials	✓								✓					✓						✓
Applied composite resin	✓					✓			✓	✓		✓		✓	✓	✓				✓
Caries Management		✓			✓	✓	✓		✓	✓	✓			✓	✓		✓	✓		✓
Management of discoloured teeth				✓					✓	✓	✓	✓		✓	✓	✓	✓			✓
Esthetic consideration	✓								✓	✓						✓				✓
Etiology ,diagnosis, and management of non-carious lesions				✓		✓	✓		✓	✓	✓	✓		✓	✓	✓				✓
Management of badly destructed teeth		✓	✓						✓	✓	✓	✓				✓	✓	✓	✓	✓
Micro leakage of dental restorations								✓		✓			✓						✓	✓
Failure of dental restoration								✓		✓			✓						✓	✓

Course coordinator:
Prof. Ali Ibrahim

Head of Department:
Prof. Wedad Etman



Course Specification

Course Title	Fixed prosthodontics	
Course Code	TDEN 04:02	
Academic Year	2018-2019	
Coordinator	Prof. Dr. W. Elshahawy	
Teaching Staff	Dr.G Masoud, Dr. M Seddik, Dr M.Shakal ,Dr A. Korsel ,Dr W. El Shahawy, Dr. F Hasaneen	
Branch / Level	Fourth year	
Semester	First & Second semester	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	24x 2 h. lectures
	Practical	24x 4 h .practical
Parent Department	Fixed prosthodontics	
Date of Approval	Faculty Council on: 19 /9/2018	

1. Course Aims

The aims of this course are to:

Combine basic sciences with practical work providing a base of knowledge to Use in the practical work for construction of crown and bridge and Provide adequate technical details for the construction of bridges and educate how to overcome some problems encountered in clinical and laboratory work.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1-** Recognize pontics and retainer construction.
- a2-** Identify plan for construction of bridge according to the case.
- a3-** Recognize temporizations for different constructed bridges.
- a4-** Identify biologic and esthetic treatment of patients in need of fixed prosthesis.
- a5-** Explain all functional and mechanical requirements needed for fixed prosthesis.
- a6-** Recognize methods of try in procedures.
- a7-** Identify post-operative care.
- a8-** Identify post insertion problem and failure.
- a9-** Recognize steps to restore a badly broken-down tooth.

B. Intellectual skills:

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

- b1-** Predict solution for different manifestation of bridge failure.
- b2-** Conclude esthetic requirement for patients.
- b3-** select the proper material for final restoration.
- b4-** Select the proper cementation technique.

C. Professional and practical skills:

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

- c1.** Preserve harmony with certified dental technologist.
- c2.** Apply construction of temporary crown and bridge.
- c3.** Check different problems in final restoration.

D. General and transferable skills:

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

- d1-** self evaluate professional ability, performance and progress.
- d2-** Communicate with colleague and staff member.
- d3-** Use all resources and lifelong learning.
- d4-** Present communication and information technology related to health care.

3. Course Contents

Week	Topics
1	Curriculum and Grading
2,3	Diagnosis
4	Treatment Planning
5	Mouth preparation
6	Tissue Management

7	Impression Technique
8	Try in
	Quiz
10,11	Periodontal Consideration
12,13	Cementation
14	Post-operative Care
15	Revision
16	Mid-year theoretical exam
17-18	Post-insertion Problems & Failure
19	Management of Endodontically-treated Teeth
20	Fiber-reinforced Composite FDP
21	Resin-bonded Restoration
22	Quiz
23	Porcelain Laminate Veneer
24-25	Implant-supported fixed prosthesis
26-27	All-ceramic Restorations
28	Revision

4. Teaching and Learning Methods

4.1 Lectures- illustrated with case studies.

4.2 Practical Sessions (Direct contact between the students and their demonstrators, patients and professors).

Requirements (patients): (one three unit fixed prosthesis , two single crowns, one ready made post and core , one casted post and core)

4.3 Lecture Notes.

4.4 Demonstration CD's.

5. Student Assessment

Assessment Method	Assessment Length	ILIOS Coverd	Proportion
Written Examination	3 hours	a1-9,b1-4	40%
Oral Assessment	About half hour \group	a1-9,b1-4	13.3%

Practical Examination	3 hours	C1-3	26.7%
Semester work	1 hour quizzes +practical requirement through the year	a1-7,b1-4,c1-3	20%

6. List of references

Course notes: Separate helpful notes from the different lectures, for each item, or subject.

Essential Books:

- Rosensteel, Contemporary Fixed Prosthodontics. 5th edition 2015.
- Craig, R.G., *Restorative Dental Materials*. Mosby.
- Laney, W.R., and Gibilisco, J.A., *Diagnosis and Treatment in Prosthodontics*. Lea Febiger
- McLean, J.W., *Dental Porcelain*. Quintessence.
- Preiskel, H.W., *Precision Attachments in Dentistry*. C.V. Mosby.
- Shillingburg, et al., *Fundamentals of Fixed Prosthodontics*. Quintessence.4th edition 2013.
- Tylman, *Theory and Practice of Fixed Prosthodontics*. Malone-Mosby.

7. Facilities required for teaching and learning

7.1 Appropriate teaching accommodation.

7.2 Computer/ Lap top.

7.3 Data show.

7.4 White board (and markers).

7.5 Adequately prepared clinics.

7.6 Materials – required by students.

7.7 Providing lecture notes, manuals and sheets.

7.8 Digital sensors

7.9 Digital X-ray machines.

7.10 Digital printers.

7.11 Developing machines.

7.12 CAD-CAM machine.

7.13 Intraoral cameras and LCDs for Demonstrations.

	Course Coordinator	Head of Department
Name	Prof. Dr.Waleed Elshahawy	Prof. Dr. Mahmoud Shakal
Name (Arabic)	أ. د. وليد الشهاوى	أ. د. محمود شكل
Signature		
Date	14 / 9 /2018	14 / 9 /2018

Course Contents	Course outcomes ILOs																			
	Knowledge and Understanding									Intellectual				Practical			Transferable			
	a1	a2	a3	a4	a5	a6	a7	a8	a9	b1	b2	b3	b4	c1	c2	c3	d1	d2	d3	d4
Resin-bonded Restoration	√			√							√							√		
Porcelain Laminate Veneer		√		√	√				√			√		√				√		
Implant-supported fixed prosthesis		√															√	√		
All-ceramic Restorations	√																	√		

Course coordinator:

Prof. Dr. W. Elshahawy

Head of Department

Prof.Dr. Mahmoud Shakal



Course Specification OF Endodontics

Course Title	Endodontics	
Course Code	TDEN 04:03	
Academic Year	2018-2019	
Coordinator	Ass Prof. Ahmed Labib	
Teaching Staff	Dr. Abeer Darrag, Dr. Ahmad Labib, Dr. neveen Shahin .Dr. walaa Ghoniem, Dr. Dalia El sherif	
Branch / Level	Fourth Year	
Semester	First & Second	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	1 h lectures
	Practical	2 h practical
Parent Department	Endodontics	
Date of Approval	Council of the Faculty of Dentistry, Tanta University on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- Enable students to perform the clinical steps resulting in the satisfactory completion of successful root canal treatment (Preparation, Obturation and Restoration), helping them for decision making and treatment planning. Allows the students to know the recent advances in Root canal disinfection and differentiate between endodontic and periodontal lesions.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1. Describe proper diagnosis of clinical cases to differentiate between pulpal, periapical, periodontal and other diseases.
- a2. Describe successful root canal treatment.
- a3. Explain errors in root canal preparation techniques.
- a4. Recognize mishaps in root canal obturation.
- a5. Express endodontic emergencies.
- a6. Recognize different cases of traumatic injuries.
- a7. Explain immature teeth.
- a8. Discuss vital pulp therapy and maintain pulp vitality.
- a9. List perio-endodontic problems.
- a10. Recognize recent materials in root canal disinfection.
- a11. List new modalities of rotary instruments.
- a12. Explain advanced technology for endodontic retreatment procedures.
- a13. Discuss non-vital teeth bleaching.

B. Intellectual skills:

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

- b1. Consider possibilities of different problems that may happen during endodontic treatment.
- b2. Solve the identified problems
- b3. Select the Ideal root canal medication during root canal disinfection
- b4. Create proper decision making and treatment planning.
- b5. Assess new materials and techniques for vital pulp therapy.
- b6. Estimate treatment options of exposed immature teeth.
- b7. Visualize root-end surgical procedures.
- b8. Distinguish new modalities of rotary instruments.
- b9. Categorize different causes of success and failure of endodontically treated teeth.
- b10. Collect information about etiology of pulpal inflammation.
- b11. Manage endodontic emergency cases.
- b12. Construct treatment plan for management of traumatically injured teeth.

C. Professional and practical skills:

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

- c1. Operate clinical cases requiring root canal treatment (RCT).
- c2. Apply proper Cleaning and shaping of root canals for anterior & posterior teeth.
- c3. Apply Ideal root canal obturation of anterior & posterior teeth.
- c4. Schedule long term follow up to the case.
- c5. Solve errors that may occur during root canal treatment
- c6. Employ options for retreatment of failed cases.
- c7. Apply Follow up plan for retreated cases.
- c8. Illustrate root-end surgical procedures.
- c9. Demonstrate new modalities of rotary instrumentation.
- c10. Apply treatment options for management of traumatic injuries.
- c11. operate treatment of immature teeth.
- c12. Operate with advanced root canal irrigation materials and techniques.
- c13. Illustrate different pulpal and periapical changes.

D. General and transferable skills:

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

- d1. Communicate with staff members a team work efficiently.
- d2. Communicate with patients properly.
- d3. Justify patient expectations, desires and attitudes (need and demands) when considering treatment planning and during treatment.
- d4. Examine all resources effectively to continuing professional development and lifelong learning and assess personal progress.
- d5. Advocate individuals, families and groups in the community about the oral health.

3. Course Contents

Week	Topics
Week 1	Case Control
Week 2	
Week 3	
Week 4	
Week 5	Recent advances in root canal disinfection
Week 6	Etiology of pulp inflammation
Week 7	Pulp & periapical changes
Week 8	
Week 9	Endodontic Emergency
Week 10	Endo-perio lesions
Week 11	Combined Endo-Perio therapy
Week 12	New modalities and techniques for vital pulp therapy
Week 13	Treatment of immature teeth
Week 14	Root end surgical procedures
Week 15	Non vital tooth bleaching
Week 16	Quiz
Week 17	Traumatic injuries
Week 18	
Week 19	
Week 20	
Week 21	Success and failure
Week 22	New modalities of rotary instrumentation
Week 23	Advanced technology for endodontic retreatment
Week 24	

4. Teaching and Learning Methods

A variety of instructional methods will be used in teaching this course include:

- 4.1 Lectures- illustrated with case studies.
- 4.2 Practical Sessions (Direct contact between the students and their demonstrators, professors and patients).
- 4.3 seminars.
- 4.4 library research.
- 4.5 small group discussions.

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion
Written Examination "final exam"	3 hours	At the end of the year	40%
Oral Assessment	About half hour \group	At the end of the year	13.3%
Practical Examination	3 hours	April	26.7%
Semester work	1 hour quizzes +practical requirement through the year	During 1 st & 2 nd semester	20%

6. List of references

Course notes: Lecture's handouts.

Essential Books:

- Cohen, S. and Burns, R.C., *Pathways of the Pulp* 2016 11th ed. Mosby,.
- Grossman, L.I., Oliet, S., and DelRio, C.E., 1981, *Endodontic Practice*. Lea and Febiger
- Gutmann, J.L., and Harrison, J.W., *Surgical Endodontics*. Blackwell Scientific Publications.
- Ingle, J.L. 6th ed., and Taintor, J.F., *Endodontics*. Lea and Febiger.
- Selzer, S., and Bender, I.B., *The Dental Pulp—Biologic Considerations in Dental Procedures*.
- Walton and Torabinejad, 2009, *Principles and Practice of Endodontics*. Saunders.
- Weine, 2009, *Endodontic Therapy*. Mosby.
- NishaGarg, *Textbook of endodontics*, 2013, third edition.

7. Facilities required for teaching and learning

- 7.1 Computer/Laptop,
- 7.2 Data show,
- 7.3 Adequately prepared clinics,
- 7.4 Materials required by students,
- 7.5 X-Ray machines,
- 7.6 Digital sensors,
- 7.7 Digital printers,
- 7.8 Developing machines,
- 7.9 Endodontic motors,
- 7.10 Apex Locators,
- 7.11 Providing lecture notes, manuals and sheets.

	Course Coordinator	Head of Department
Name	Ass Prof. Ahmed Labib	Ass Prof. Ahmed Labib
Name (Arabic)	أ.م. أحمد لبيب	أ.م. أحمد لبيب
Signature		
Date	9/2018	9/2018

√5.5 Course contents – Course ILOs Matrix

University: Tanta
Faculty: Dentistry
Department: Endodontics

Course Code / Course Title TDEN 04:06/ Endodontics

Course Contents	Knowledge													Intellectual												Practical													Transferable						
	A 1	A 2	A 3	A 4	A 5	A 6	A 7	A 8	A 9	A 10	A 11	A 12	A 13	B 1	B 2	B 3	B 4	B 5	B 6	B 7	B 8	B 9	B 10	B 11	B 12	C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	C 13	D 1	D 2	D 3	D 4	D 5		
Case control	√	√												√	√		√									√			√				√					√	√	√		√			
Recent advances in root canal disinfection										√						√											√								√					√					
Etiology of pulpal inflammation																						√																							
Pulp and periapical changes	√																																				√								
Endodontic emergency					√																		√																						
Endo-Perio lesions	√								√																																				
Combined endo-perio therapy		√							√																							√													
New modalities and techniques for vital pulp therapy		√						√										√																									√		
Treatment of immature teeth		√					√											√						√												√									
Root end surgical procedures		√																		√											√														
Non-vital tooth bleaching												√																																	
Traumatic injuries		√				√																		√											√										
Success and failure			√	√							√			√	√							√						√		√	√	√			√										
New modalities of rotary instruments										√											√						√						√									√			

Course coordinator:

Head of Department:
Ass. Prof. Ahmed Labib



Course Specification

Course Title	Oral and Maxillofacial Surgery	
Course Code	TDEN 04:04	
Academic Year	2018-2019	
Coordinator	Prof. Dr. Mahmoud Khalifa – Asst. Prof. Dr. Ahmed sanad	
Teaching Staff	Prof. Dr. Mohamed Monay Shoshan, Prof. Dr. Abdelfattah Sadaka, Prof. Dr. Mohamed Saad, Prof. Dr. Mohamed Elshal, Prof. Dr. Khaled saad, Dr. Samir Abd elaal, Dr. Mahmoud Khalifa, Dr. Ibrahim Noir, Dr. Ahmed Sanad, Dr. Emad Faheem, Dr. Rafik Ramadan, Dr. Eman Borg, Dr. Ahmed Elshrief, Dr. Mohamed Kamal	
Branch / Level	Fourth year	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	24 x 3 h lectures
	Practical	26 x 3 h practical
Parent Department	Department of Oral & Maxillofacial surgery.	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- Provide students with an appropriate foundation of knowledge covering oral and maxillofacial surgery emergencies and common diseases in the oral and maxillofacial region in children and adults with various surgical interventions.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1. Recognize the maxillary sinus and its dental implications & preprosthetic surgery management
- a2. Label the clinical symptoms and signs of the of oral soft & hard tissues infections.
- a3. List the clinical symptoms and signs of the oral cavity cysts and tumors of the oral cavity.
- a4. Report the oro-facial pain, and temporomandibular joint diseases and salivary gland disease
- a5. Recognize the management of patients with traumatic injuries in oral and maxillofacial region and the use of dental implant
- a6. Explain the management of patients with cleft lip and palate.
- a7. list the differential diagnosis of different lesions affecting oral & maxillofacial region.

B. Intellectual skills:

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

- b.1. Differentiate between causes of surgical problems and methods of management for patients regarding maxillofacial surgery.
- b.2. organize maxillofacial emergencies.
- b.3. Construct the line of management of facial trauma.
- b.4. Assess maxillofacial infections, its causes and management lines.
- b.5. Differentiate between pathological conditions of both hard and soft oral tissues
- b.6. Assess the role of oral surgery and its interface with other dental and medical specialties in the management of conditions such as facial deformity and head and neck tumors.

C. Professional and practical skills:

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

- c.1. Practice the necessary procedures for controlling complications of oral surgery both general (medical) and local (surgical) intra-operatively and post-operatively
- c.2. Apply different anesthetic techniques for oral and maxillofacial region.
- c.3. Use the needed surgical armamentarium.
- c.4. Perform teeth simple extraction.
- c.5. Perform removal of fractured teeth and remaining roots.

D. General and transferable skills:

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

- d.1. Communicate with colleagues, staff and patient
- d.2. Manage time set priorities work to prescribed time limits.
- d.3. Use information technology and resources.
- d.4. Appropriate professional behavior.
- d.5. Communicate with other specialty to improve the medical services.

3. Course Contents

Weeks	Topics
1,2	Preprosthetic surgery.
2,3	Diagnosis & treatment of cysts of the oral cavity.
4,5	Diagnosis & treatment of oral hard & soft tissues infections.
6	Dental Implantology.
7,8	Diagnosis & treatment of tumors of the oral cavity.
	Med-term Exam.
9	Salivary gland diseases.

10	Maxillary sinus affection.
11,12	Differential Diagnosis & treatment of oral lesions.
13,14	Cleft lip & palate
	Exam
15,16, 17, 18, 19,	Traumatic injuries.
	Med term exam.
20	TMJ diseases & oro-facial pain
21	Classification & diagnosis of facial deformity
22	Surgical correction of facial deformity.
23	Repair of soft tissue defects & replacement of bone.
24	Complications of oral & maxillofacial surgery.
	Exam

4. Teaching and Learning Methods

4.3 Lectures

4.3 Clinical sessions

5. Student Assessment

Assessment Method	Marks	Assessment Length	Schedule	Ilos covered
Written Examination	120	3 Hrs	At the end of the year (June 2013)	a1-7,b1-6
Oral Assessment	40	20 min for each student	At the end of the year (June 2013)	a1-7,b1-6
Practical Examination	80	Each student performs tooth extraction with the necessary anesthetic technique	Mid-April	C1-5
Semester work	60	3 written exams in MCQ form in addition to course work	2 exams in the first semester and one exam in the second semester The course work assesses the student clinical performance & attendance during practical sections	a1-7.b1-6.c1-5
	Total = 300			

6. List of references

Course notes: Department book

Essential Books: Peterson, Ellis, Hupp, Tucker, Myron. Contemporary Oral and Maxillofacial Surgery. 6th edition, Missouri: Mosby, 2014.

Web sites: www.eaoms.com

7. Facilities required for teaching and learning

Dental instruments and equipments.

Data show projector, computer and overhead pr

	Course Coordinator	Head of Department
Name	Prof. Mahmoud Khalifa Asst.Prof. Ahmed sanad	Prof. Dr. Mohamed Elshall
Name (Arabic)	أ. د. محمود خليفة – أ.د.م أحمد سند	أ. د. محمد الشال
Signature		
Date	9/ 9 /2018	9/9 /2018

5.5 Course contents – Course ILOs Matrix

Tanta University
Faculty of Dentistry
Department Of Oral and Maxillofacial Surgery

Course Code / Course Title: TDEN 04:04 / Oral and Maxillofacial Surgery

Course Contents	Course outcomes ILOs																						
	Knowledge and Understanding							Intellectual						Practical					Transferable				
	A1	A2	A3	A4	A5	A6	A7	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	D1	D2	D3	D4	D5
Preprosthetic surgery.	♦							♦							♦	♦	♦	♦	♦	♦	♦	♦	
Diagnosis & treatment of cysts of the oral cavity.			♦					♦						♦		♦	♦		♦	♦	♦	♦	
Diagnosis & treatment of oral hard & soft tissues infections.		♦						♦			♦	♦		♦					♦	♦	♦	♦	
Dental Implantology.					♦														♦	♦	♦	♦	♦
Diagnosis & treatment of tumors of the oral cavity.			♦					♦	♦					♦					♦	♦	♦	♦	♦
Salivary gland diseases.				♦					♦								♦		♦	♦	♦	♦	♦
Maxillary sinus affection.	♦							♦	♦										♦	♦	♦	♦	♦
Differential Diagnosis & treatment of oral lesions.			♦				♦	♦				♦		♦	♦				♦	♦	♦	♦	♦
Cleft lip & palate						♦													♦	♦	♦	♦	♦
Traumatic injuries.					♦			♦	♦	♦								♦	♦	♦	♦	♦	
TMJ diseases & oro-facial pain				♦					♦										♦	♦	♦	♦	♦
Classification & diagnosis of facial deformity						♦			♦				♦						♦	♦	♦	♦	
Surgical correction of facial deformity.						♦			♦				♦	♦					♦	♦	♦	♦	♦
Repair of soft tissue defects & replacement of bone.							♦						♦					♦	♦	♦	♦	♦	♦

Course Contents	Course outcomes ILOs																						
	Knowledge and Understanding							Intellectual						Practical					Transferable				
	A1	A2	A3	A4	A5	A6	A7	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	D1	D2	D3	D4	D5
Complications of oral & maxillofacial surgery.							♦	♦	♦				♦	♦					♦	♦	♦	♦	♦

Course coordinator:
Prof. Dr. Mahmoud Khalifa
Asst. Prof. Ahmad sanad

Head of Department:
Prof. Dr. Mohammed Elshall

Tanta University

Faculty of Dentistry

Department: Oral Medicine, Periodontology, Oral diagnosis & Radiology



Course Specification

Course Title	Oral Medicine
Course Code	TDEN 04:05
Academic Year	2018- 2019
Coordinator	Dr Shereen Abdel Moula Ali
Teaching Staff	Dr Adel Aziz Saeed, Dr Hussein Saudi, Dr Lubna El Gamal, Dr Omima Heilmy, Dr Abdel Mohsen, Dr Shereen Abdel Moula, Dr Sahar ghoraba.
Branch / Level	Fourth year
Pre-Requisite	B.D.S
Course Delivery	Lecture 24 x 2 h lectures Practical 24 x 2 h practical
Parent Department	Oral Medicine, Periodontology, Oral diagnosis & Radiology
Date of Approval-	Faculty Council on: 19/9/٢٠١٨

1. Course Aims

The aims of this course are to:

- Bridge the gap between the medical and dental professions.
- Teach the clinical presentation, diagnosis and management of the common oral, dental diseases and the oral manifestations of systemic diseases.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

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

- a1. Define the rationale and method for gathering and recording relevant medical and dental information (including the examination of the patient) and the use of this information for dental treatment.
- a2. List and describe acute and chronic multiple oral ulcers, recurring oral ulcers, syndromes and ulcers that present as chronic single lesions.
- a3. Identify and describe red and white lesions of the oral mucosa.
- a4. Define oral pigmentation according to color, configuration, and distribution.
- a5. Describe the anatomy and physiology of the salivary glands and then outline a diagnostic approach to the patient with salivary gland dysfunction. List the major salivary gland disorders and treatment options.

- a6. Define pain pathway and describe orofacial pain and headache sign, symptoms and management.
- a7. Describe disorders of red and white blood cells and tongue disease.
- a8. Describe bleeding& clotting disorders and haematological diseases.
- a9. Define clinical manifestations of diseases that involve the immune system and TMJ disorders.
- a10. List different examples of immunologic disorders and their impact on oral disease and dental management such disorders.
- a11. Define infectious diseases that are of importance to dentistry.
- a12. Define patients who are carriers of infectious diseases with the purpose of providing appropriate and safe dental care.
- a13. List many different aspects of HIV disease and emphasize oral health considerations, which have an impact on the overall health of HIV-infected individuals.
- a14. Describe classification, pathophysiology, clinical presentation, laboratory findings, diagnosis, complications, and management of diabetes mellitus in patients requiring dental treatment.
- a15. Describe the pathophysiology of the hypothalamic-pituitary-thyroid axis and the hypothalamic-pituitary-adrenal axis.
- a16. Describe the pathophysiology, clinical and laboratory findings and diagnosis, management, prognosis, treatment and oral health considerations of endocrinal diseases.
- a17. Describe the relationship of nutrition and oral malodor to oral, periodontal, oral manifestation and systemic diseases.

B. Intellectual skills:

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

- b1. organize mucosal diseases using the appropriate terminology.
- b2. Arrange salivary gland diseases according to there etiology.
- b3. predict the immunologic diseases through its oral and skin manifestations and evaluate TMJ disorders.
- b4. Arrange bidirectional relationship between oral manifestations and endocrinal diseases or nutrition deficiency.
- b5. interpret special investigations (hematological, histopathological, biochemical and immunological) .

- b6. Create chair-side investigations including blood glucose level, and aspiration biopsy.
- b7. Evaluate oral malodor and identify its causes.
- b8. Connect oral and systemic manifestation of white lesions and create a special treatment plan according to the data collected.
- b9. Identify diseases which need referral to other medical, surgical and dental specialists.
- b10. Connect oral and systemic manifestation of vesiculo-bulous ulcerative lesions and create a special treatment plan according to the data collected.
- b11. Connect oral and systemic manifestation of infectious diseases and create a special treatment plan according to the data collected also consider possibilities of infection transmission.

C. Professional and practical skills:

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

- c1. Schedule a clinical, medical and social history, record the clinical signs and symptoms.
- c2. Apply a clinical examination including extra and intra-oral..
- c3. Schedule a diagnosis and formulate a plan of action (including dental treatment modifications and necessary medical referrals).
- c4. Illustrate and treat the common mucosal diseases.

D. General and transferable skills:

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

- d1. Interact within team for clinical presentation of various diseases of oral mucosa.
- d2. Explain and access a range of learning resources such as web sites of oral medicine cases.
- d3. Present information technology as a means of communication, for data collection and analysis, and for self-directed learning
- d4. Justify time, set priorities and work to prescribed time limits
- d5. Present communications and information technology (C&IT) for word-processing, send an electronic mail and access information by the world-wide web

- d6. Formulate verbal and written presentations using appropriate audio-visual aids
- d7. Communicate with colleagues and the patient
- d8. Illustrate computer assisted learning (CAL) programs as part of the learning process and a means of delivering and reinforcing IT skills.

3. Course Contents

Weeks	Topics
1-2	Infectious Diseases
3-4	Red and White Lesions of the Oral Mucosa
5-6	Immunologic Diseases I
7-8	Vesiculo-Bullous and Ulcerative Lesions of the Oral Mucosa
9	Diseases of the tongue
10-11	Tempromandibular Disorders
12	Pigmented Lesions of the Oral Mucosa
13-14	Bleeding and Clotting Disorders
-15	Nutrition
16-17	Endocrine Disease
18-19	Diabetes Mellitus
20	Halitosis
21	Salivary Gland Diseases
22-23	Hematologic Diseases
24	Orofacial Pain &Headache

4. Teaching and Learning Methods

Lectures, seminars, assignments, clinical and field base activity
Students will examine, diagnose and perform treatments under supervision on patients.

5. Student Assessment

Assessment Method	Assessment Length	Ilos coverd	Proportion	Degrees
Written Examination	120 minutes	a1-17,b1-11	35%	60
Oral Assessment	15 minutes	a1-17,b1-11	20%	40
Practical Examination	30 minutes	c1-4	25%	20
Semester work	30 minutes	a1-10,b1-6	20%	30

6. List of references

Course notes: Handouts are present on the departmental web site at
<http://www.geocities.com/tantaoralmedicine/>

Essential Books: Burket's Oral Medicine, 12th ed., Greenberg M, Glick M & Ship J.
BC Decker, 2012

Web sites: <http://www.geocities.com/tantaoralmedicine/>

7. Facilities required for teaching and learning

Sufficient numbers of dental units
Oral Medicine textbooks & journals

Computers to encourage students to master communication and information technology skills

Oral Medicine Conference Room for small group tutorials

Digital camera for documentation of clinical cases

	Course Coordinator	Head of Department
Name	Dr. Shereen Abdel Moula Ali	Prof. Hussein Seodi
Name (Arabic)	د. شيرين عبد المولي علي	أ. دحسين سعودي
Signature		
Date	5/ 9 /2018	5/9 /2018

5.5 Course contents – Course ILOs Matrix

University : Tanta

Faculty:Dentistry

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

Course Code / Course Title: Oral Medicine -TDEN 04:01

Course Contents		Course outcomes ILOs																																									
	Knowledge and Understanding																	Intellectual											Practical				Transferable										
	A1	A 2	A 3	A 4	A 5	A 6	A 7	A 8	A 9	A 10	A 11	A 12	A 13	A 14	A 15	A 16	A 17	B 1	B 2	B 3	B 4	B 5	B 6	B 7	B 8	B 9	B 10	B 11	C 1	C 2	C 3	C 4	D 1	D 2	D 3	D 4	D 5	D 6	D 7	D 8			
Infectious Diseases	✓										✓	✓	✓									✓				✓		✓	✓	✓	✓	✓						✓					
Red and White Lesions of the Oral Mucosa							✓																		✓	✓			✓	✓	✓	✓	✓	✓						✓	✓		
Immunologic Diseases I									✓	✓										✓		✓				✓			✓	✓	✓	✓	✓										
Vesiculo-Bullous and Ulcerative Lesions of the Oral Mucosa	✓	✓																				✓	✓			✓	✓		✓	✓	✓	✓	✓							✓	✓		
Diseases of the tongue	✓						✓															✓		✓		✓	✓		✓	✓	✓	✓	✓							✓	✓		
Tempromandibular Disorders						✓			✓											✓		✓	✓			✓			✓	✓	✓	✓							✓	✓			
Pigmented Lesions of the Oral Mucosa				✓												✓						✓	✓			✓			✓	✓	✓	✓	✓	✓	✓					✓			
Bleeding and Clotting Disorders								✓								✓						✓				✓			✓	✓	✓	✓	✓	✓							✓		
Nutrition																	✓				✓	✓	✓			✓			✓	✓	✓	✓											
Endocrine Disease																✓	✓					✓				✓			✓	✓	✓	✓				✓					✓		
Diabetes Mellitus														✓	✓	✓					✓	✓	✓			✓			✓		✓												✓
Halitosis																✓								✓		✓			✓			✓	✓							✓	✓		
Salivary Gland Diseases					✓	✓													✓			✓				✓			✓	✓	✓	✓	✓							✓	✓		
Hematologic Diseases							✓	✓														✓				✓			✓	✓	✓	✓	✓								✓		

Course Contents		Course outcomes ILOs																																								
		Knowledge and Understanding																Intellectual										Practical				Transferable										
	A1	A 2	A 3	A 4	A 5	A 6	A 7	A 8	A 9	A 10	A 11	A 12	A 13	A 14	A 15	A 16	A 17	B 1	B 2	B 3	B 4	B 5	B 6	B 7	B 8	B 9	B 10	B 11	C 1	C 2	C 3	C 4	D 1	D 2	D 3	D 4	D 5	D 6	D 7	D 8		
Orofacial Pain &Headache						✓														✓						✓			✓	✓	✓	✓					✓			✓		
practice																													✓	✓	✓	✓					✓	✓	✓			✓

Course coordinator: Dr. Shereen Abdel Moula Ali

Head of Departement: Dr. Hussein Seody



Course Specification

Course Title	Periodontology	
Course Code	TDEN 04:05	
Academic Year	2018-2019	
Coordinator	Dr. Omima Helmy	
Teaching Staff	Dr Samia Darwish, Dr Hussein Saudi , Dr. Amal el Hussy, Dr. Mona Yehia, Omaila Helmy ,Dr Mohamed Nassar, Dr.Hoda El Gendy & Dr. Malak Mohammed	
Branch / Level	Fourth year	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	26 x 2h lectures
	Practical	24 x 2h practical
Parent Department	Oral Medicine, Periodontology, Oral diagnosis & Radiology	
Date of Approval-	Faculty Council on 19/9/ 2018	

1. Course Aims.

The aims of this course are to:

- Acquire the students the skill of how to identify different periodontal problems.
- Provide the students with knowledge about the causes of etiological factors of the common periodontal disease.
- Emphasize the importance of gathering a relevant history from patients; to examine, perform specific investigations, diagnose, plan and execute non-surgical treatment
- Train the students methodology of scaling & root planning and how to design appropriate maintenance programs for patients with common periodontal problems.
- Recognize instruments used in non-surgical and surgical procedures, by site, in addition to instrument sharpening techniques.
- Emphasis on strict infection control protocol during all clinical procedures .

2. Intended Learning outcomes (ILOs).

A. Knowledge and understanding:

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

- a1. Define periodontal diseases and conditions affecting the periodontium.

- a2. Define the role of microbiology in the etiology of periodontal diseases and identify the microbial interactions with the host in periodontal diseases
- a3. Explain the role of dental calculus and other predisposing factors **in** initiating & progressing periodontal diseases.
- a4. Recognize the influence of systemic disease, disorders and stress on periodontal health.
- a5. Identify types, the etiology, clinical features, diagnosis and treatment of gingival enlargement
- a6. Recognize the etiology, risk factors, clinical features, diagnosis and treatment of acute gingival and periodontal infections.
- a7. Describe types, classification, clinical features, pathogenesis, histopathology, diagnosis and treatment of the periodontal pocket
- a8. List causes of alveolar bone loss and describe patterns of bone destruction
- a9. Identify the influence of trauma from occlusion on progression of periodontitis and both tooth and soft tissue loss.
- a10. Identify clinical features, risk factors and treatment of chronic and aggressive periodontitis
- a11. Recognize etiology, clinical features, pathogenesis, diagnosis and treatment of gingival and periodontal abscess
- a12. Identify methods of plaque control and explain them to the patients.
- a13. List principles of scaling and root planing including sonic and ultrasonic instrumentation and supragingival and subgingival irrigation.
- a14. Report chemotherapeutic agents including the adjunctive use of systemic, serial and combination antibiotic therapy and local delivery systems of antibiotics and antiseptic agents in addition to host modulation agents.
- a15. List the general principles of periodontal surgery and describe gingival surgical techniques and the periodontal flap technique for pocket therapy.
- a16. Recognize indications and techniques of resective and reconstructive periodontal surgery.
- a17. Identify the etiologic factors, diagnosis, classification, prognosis and treatment of furcation defects

- a18. Identify etiology of gingival recession and mucogingival problems and determine objectives and techniques of plastic and esthetic periodontal surgery.
- a19. Identify the rationale for supportive periodontal treatment and describe the maintenance program tailored for individual patients with periodontal disease and dental implant.
- a20. Identify the basic principles of oral implantology and describe the maintenance program tailored for individual patients with dental implant.
- a21. Recognize the management of dental implant complications and describe the maintenance program tailored for individual patients

B. Intellectual skills:

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

- b1. Assess signs of periodontal diseases.
- b2. propose prognosis for various types of periodontal diseases.
- b3. Arrange a comprehensive sequential treatment plan.
- b4. categorise the rationale for periodontal treatment.

C. Professional and practical skills:

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

- c1. Organize a comprehensive clinical and radiographic examination ,and charting of a patient in order to determine the etiology, diagnosis, severity and prognosis of periodontal disease and formulate a treatment plan.
- c2. Prepare patients to better dental care and carry out a course of oral hygiene instruction and evaluate its effects.
- c3. Perform thorough scaling and root planning and correct factors predisposing to the accumulation of calculus and dental deposits.
- c4. Construct proper diagnosis if there in cases with abnormal occlusal force factors contributing to the clinical manifestation of the periodontal disease and formulate the most appropriate method of treatment.
- c5. Schedule other treatment options for periodontal problems including the use of surgical techniques by assisting staff members during the various surgical procedures planned for managing the patients' conditions

- c6. Construct surgical periodontal treatment as gingivectomy and different types of periodontal flaps and suturing techniques.
- c7. Illustrate the results of periodontal treatment in the short-term as well as patients who are on a maintenance program.
- c8. Provide appropriate treatment protocol for medically compromised and handicapped patients who need special considerations in managing their periodontal problems.

D. General and transferable skills:

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

- d1. Communicate with colleagues and the patients.
- d2. Communicate with other members of the dental team in order to work together effectively.
- d3. Present information technology to access a range of learning resources.
- d4. Justify time, set priorities and work to prescribed time limits.
- d5. Present of communications and information technology (C&IT) for sending electronic mail and accessing information by the world-wide web.

3. Course Contents.

No of Weeks	Topics
1	1. Classification of Diseases and Conditions Affecting the Periodontium
2	2. From Gingivitis to periodontitis
3	3. The Role of Dental Calculus and Other Predisposing Factors
4	4. Scaling and Root Planing Sonic and Ultrasonic Instrumentation Supragingival and Subgingival Irrigation
5	5. Risk factors in periodontal disease
6	6. Chronic periodontitis
7	7. Periodontal Pocket
8	8. Aggressive Periodontitis
9	9. Gingival Enlargement
10	10. The Acute Gingival Infections
11	11. Periodontal abscess

12	12. Periodontal Response to External Forces
13	13. Determination of Prognosis
14	14. Treatment Plan
15	15. Microbial Interactions with the Host in Periodontal Diseases
16	16. Chemotherapeutic and Host Modulation Agents as adjuncts to periotherapy
17	17. Supportive Periodontal Treatment - Results of Periodontal Treatment
18	18. General Principles of Periodontal Surgery - Gingival Surgical Techniques
18	19. The Periodontal Flap – The Flap Technique for Pocket Therapy
19	20. Resective Osseous Surgery – Bone Loss and Patterns of Bone Destruction
20	21. Reconstructive Periodontal Surgery
21	22. Furcation: Involvement and Treatment
22	23. Periodontal Plastic and Esthetic Surgery
23	24. Basic principles of oral implantology
24	25. Management of implant complications
25	26. Evidence based in periodontology

4. Teaching and Learning Methods.

- Lectures (interactive teaching should be encouraged) and clinic training.
- Demonstrations and clinical sessions on patients.
- Following patient demonstrations, students will examine and perform preventive and therapeutic treatments under supervision on patients.

5. Student Assessment.

Assessment Method	Assessment Length	Ilos coverd	Proportion	Degreees
Written Examination	120 minutes	a1-21,b1-4	35%	60
Oral Assessment	15 minutes	a1-21,b1-4	20%	20
Practical Examination	45 minutes	C1-8	25%	40
Semester work 20%	30 minutes	a1-11,b1-4	20%	30

6. List of references.

Course notes: Handouts are present on the departmental web site at <http://www.geocities.com/tantaperio/>

Essential Books: Caranza's Clinical Periodontology, 10th ed., Newman M.G., Takei H.H., Carranza, F.A., & Klokkevold, P. W.B. Saunders Co., 2015..

Web sites: <http://www.geocities.com/tantaperio/>

7. Facilities required for teaching and learning.

- Sufficient numbers of dental units and sphygmomanometers
- Hand instruments for non-surgical and surgical instruments and ultrasonic scalers
 - Dental phantom heads (Skill lab)
- Periodontology textbooks & journals
- Computers to encourage students to master communication and information technology skills
- Periodontal Conference Room for small group tutorials
- Digital camera for documentation of clinical cases

	Course Coordinator	Head of Department
Name	Prof. Omaima Helmy	Prof. Hussein saudi
Name (Arabic)	أ. د. أميمة حلمي	أ. د. حسين سعودي
Signature		
Date	5/9/2018	5/9/2018

5.5 Course contents – Course ILOs Matrix

University: Tanta

Faculty: Dentistry

Departement: Oral Medicine , Periodontology,

Oral Diagnosis and Oral Radiology

Course Code / Course Title: Periodontology, TDEN 04:01

Course Contents	Course outcomes ILOs																																						
	Knowledge and Understanding																				Intellectual				Practical								Transferable						
	A 1	A 2	A 3	A 4	A 5	A 6	A 7	A 8	A 9	A 10	A 11	A 12	A 13	A 14	A 15	A 16	A 17	A 18	A 19	A 20	A 21	B1	B2	B3	B4	C1	C2	C3	C4	C5	C6	C7	C8	D1	D2	D3	D4	D5	
6. Classification of Diseases and Conditions Affecting the Periodontium	✓																					✓				✓								✓					
7. From Gingivitis to periodontitis			✓				✓															✓												✓					
8. The Role of Dental Calculus and Other Predisposing Factors		✓										✓												✓		✓	✓								✓				
9. Scaling and Root Planing Sonic and Ultrasonic Instrumentation on Supragingival			✓									✓	✓											✓	✓			✓						✓	✓				

[illegible]

Course Contents	Course outcomes ILOs																																					
	Knowledge and Understanding																					Intellectual				Practical								Transferable				
	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	A21	B1	B2	B3	B4	C1	C2	C3	C4	C5	C6	C7	C8	D1	D2	D3	D4	D5
36. Chemotherapeutic and Host Modulation Agents as adjuncts to periotherapy										✓	✓			✓										✓	✓	✓								✓	✓			
37. Supportive Periodontal Treatment - Results of Periodontal Treatment																			✓				✓			✓	✓					✓			✓	✓		
38. General Principles of Periodontal Surgery - Gingival Surgical Techniques															✓	✓								✓							✓	✓			✓			
39. The Periodontal Flap – The Flap Technique for Pocket Therapy															✓									✓	✓						✓	✓			✓			
40. Resective Osseous Surgery – Bone Loss and Patterns of Bone Destruction	✓															✓								✓	✓						✓	✓			✓			
41. Reconstructive Periodontal	✓															✓			✓					✓	✓						✓	✓			✓		✓	

[illegible]

Course coordinator: Dr. Omaima Helmy

Head of Department: Dr. Hussein Seody



Course Specification

Course Title	Prosthodontics	
Course Code	TDEN 04:06	
Academic Year	2018-2019	
Coordinator	Prof. Dr. Fadel Al Saeid	
Teaching Staff	Prof. Dr. Fadel Al Said, Prof. Dr. Atteia El Gendy, Prof.Dr.Zeinab Alshorbagy, Prof.Dr.M.Ma'moun, Dr Ahmed Mohiey.	
Branch / Level	fourth year	
Pre-Requisite	B.D.S	
Course Delivery	Lecture	25 x 2h lectures
	Clinical	24 x 6h clinical
Parent Department	Prosthodontic Department	
Date of Approval	Faculty Council on: 19/9/2018	

1. Course Aims

The aims of this course are to:

- combine the basic sciences with the practical work, providing adequate technical details for the construction of removable partial denture and special cases of prosthodontics & to overcome some problems encountered in clinical and laboratory work.
- provide a well trained dentist able to work in the practical field outside the college.

2. Intended Learning outcomes (ILOs)

a. Knowledge and understanding:

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

- a1. recognize steps for diagnosis and treatment planning for R.P.D.
- a2. list different impression procedures for different classes of R.P.D.
- a3. identify factors of esthetics, speech and occlusion for R.P.D.
- a4. arrange different steps in R.P.D and Implant prosthesis.
- a5. discuss steps of mouth preparation, principals & types of removable partial denture.
- a6. identify the management and problems related to geriatric patients.
- a7. recognize the concepts of the neutral zone
- a8. state the objectives, classifications and problems of single denture, over denture and implant prosthesis.

b. Intellectual skills:

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

- b1. plan dealing with different cases of partially edentulous patients.
- b2. categorize different cases of partially edentulous patients.
- b3. analyze the collected data during diagnosis of patients.
- b4. formulate a proper treatment plan from the available data.
- b5. consider possibilities in dealing with geriatric patients.

c. Professional and practical skills:

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

- c1. Use recent diagnostic methods in the treatment planning of R.P.Ds & special cases of Prosthodontics.
- c2. treat different complaints for the patient.
- c3. illustrate the different causes of tissue damage caused by removable partial denture.
- c4. practice removable partial denture design.
- c5. operate with different types of implants.
- c6. prepare a good treatment planning.

d. General and transferable skills:

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

- d1. communicate with staff members and working staff in the clinic.
- d2. advocate effective attitude in dealing with colleagues and patients.
- d3. advocate the use of contemporary information technology for the management of information.
- d4. identify patient expectations when considering treatment planning.
- d5. share information and professional knowledge with patient and other departments.
- d6. establish priorities to accomplish stress management in work place.

3. Course Contents

Week	Topics
1	Introduction and diagnosis for partial denture.
2	Diagnosis and treatment planning for partial dentures.
3	Mouth preparation
4	Impression techniques for R.P.D
5	Occlusal relationships for R.P.D
6,7	Class I
8	Class II
9	Class III
10	Class IV
11	Try in & insertion for R.P.D
12	Complaints

13	Tissue damage
14	Repair & relining of R.P.D
15	Geriatric patients
16,17,18,19	Implant prosthesis
20	Single denture
21	Over denture & Submerged root
22	Neutral zone
23	Occlusion for complete denture
24	Support for R.P.D
25	Design for R.P.D

4. Teaching and Learning Methods

4.1. Lectures: illustrated with data show and projectors.

4.2. Clinical sessions: direct contact between students and their demonstrators and professors.

5. Student Assessment

Assessment Method	Assessment Length	Ilos coverd	Proportion
Written Examination (120 Marks)	3hours	a1-8,b1-5	40%
Oral examination (40 Marks)	15 min.	a1-8,b1-5	13.3 %
Clinical examination (80 Marks)	1 hour	C1-6	26.7 %
Semester work (60 Marks)		a1-4,b1-5,c1-6	20 %
Total: 300 Marks			

6. List of references

Course notes: Each lecturer provides his reference notes.

Essential books (Textbooks):

- **Recommended books:**
- Hassaballa MA, Talic YA. Principles of complete denture prosthesis. King Saud University, 2nd ed.2014.
- Stewart KL, Rudd KD, Kuebker WA. Clinical removable partial prosthodontics, 4th edition. Chicago 2008.
- Carl E.Misch. Contemporary Implant dentistry, Third edition.2014.
- McCracken's Removable Partial Prosthodontics, 12th Edition.2011.
- Winkler S. Essentials of complete denture Prosthodontics.2nd edition 2004.
- Sharry J.J.Complete denture prosthodontics.5th edition 1993.

***Periodicals, Web sites, etc**

7. Other Resources/Facilities required for teaching and learning to achieve the above ILOs (for example, Field trips)

Data show projector, computer and overhead projector and Clinical facilities

We certify that all of the information required to deliver this course is contained in the above specification and will be implemented

	Course Coordinator	Head of Department
Name	Prof. Dr. Fadel Al Said	Prof. Dr.Ali El Shiekh
Name (Arabic)	أ.د. فاضل السعيد	أ.د. علي الشيخ
Signature		
Date	10/ 9/2018	10/ 9/2018
تم الاعتماد بمجلس القسم بتاريخ 10 / 9 / ٢٠١٨		

5. Course contents – Course ILOs Matrix

University: Tanta

Faculty: Dentistry

Department: Prosthodontics

Course Code / Course Title: **TDEN 04:06 / Prosthodontics**

Course Contents			Course outcomes ILOs																							
	Knowledge and Understanding								Intellectual					Practical						Transferable						
	A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5	C6	D1	D2	D3	D4	D5	D6	
Introduction and diagnosis for partial denture.	●																			●		●		●	●	
Diagnosis and treatment planning for partial dentures.	●			●							●	●	●		●		●			●	●	●	●	●		
Mouth preparation			●		●								●	●						●	●	●				
Impression techniques for R.P.D		●											●									●				
Occlusal relationships for R.P.D		●				●								●			●					●				
Class I									●	●					●	●	●					●				
Class II									●	●					●	●	●					●				
Class III									●	●					●	●	●					●				
Class IV									●	●					●	●	●					●				
Try in & insertion for R.P.D				●									●	●						●		●				
Complaints						●										●				●		●		●	●	

Course Contents			Course outcomes ILOs																									
	Knowledge and Understanding								Intellectual					Practical						Transferable								
	A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5	C6	D1	D2	D3	D4	D5	D6			
Tissue damage						●											●											
Repair & relining of R.P.D						●														●		●						
Geriatric patients	●												●	●	●	●			●	●	●			●	●			
Implant prosthesis	●													●		●		●	●			●		●				
Single denture	●							●						●		●						●						
Over denture & Submerged root								●								●						●		●				
Neutral zone							●															●						
Occlusion for complete denture			●																		●	●		●	●			
Support for R.P.D						●			●													●						
Design for R.P.D									●	●		●					●				●	●	●					

Course coordinator:

Prof.Dr.Fadel Abdelfattah

Head of Department:

Prof. Dr.Ali El Shiekh