



Medical students

Theoretical schedule

Ser	Tutor	First year		Second year	
		Egyptians	Malaysians	Egyptians	Malaysians
1	Prof Dr Mohamed Abdel-Hay Autifi	-Basic Anatomy 3 -G. Embryology		Thorax	
2	Prof Dr Ahmad Mustafa Kamal		Abdomen (2w)	Neuroanatomy (3w)	
3	Prof Dr Mohamed Ahmad Ebada			-Sp. Embryology- Neuroanatomy(4w)	
4	Prof Dr Mohamed Mokhtar Al-Asaly	Lower Limb (4w)			
5	Prof Dr Mahmoud Al-Najjar				Head and Neck (5w)
6	Prof Dr Ahmad Maher Ameen			Head and Neck (6w)	
7	Prof Dr HuseinFahmyEmara			Head and Neck (6w)	
8	Prof Dr Abdel-Ma'boudEmara				Sp. Embryology
9	Prof Dr Jamal Sayed Dosoqi	-Abdomen (3w) -Upper Limb (2w)			
10	Prof Dr Mohamed Al-HadyZahran		Abdomen (2w)		Head and Neck (3w)
11	Prof Dr WaheedYousry Mohamed Abdel-Aziz			Thorax (2w)	Sp. Embryology
12	Prof Dr Mohamed Sowailam	Abdomen (3w)		Neuroanatomy (2w)	
13	Prof Dr Ashraf Abdel-Rahman		Upper limb (3w)		Thorax (3w)
14	Prof Dr Abdel-Aziz AbdallaShohda		Basic Anatomy (3w)		Lower Limb (3w)
15	Prof Dr YahiaYousof		Abdomen (2w)		Head and Neck (4w)
16	Prof Dr Mustafa Al-Jizawy	Lower Limb (3w)		Thorax (3w)	
17	Prof Dr Ahmad Son'AllahKhalifa		-G. Embryology -Upper Limb (3w)		
18	Prof Dr Sobhy Hassan Ewais		Pelvis (2w)		Neuroanatomy (3w)
19	Dr Ahmed Kamal al-Banna	Upper Limb (4w)			Neuroanatomy (2w)
20	Dr Alaa Al-Deen Sayed Semary	Pelvis (2w)	Lower limb (3w)		Thorax (2w)

-Basic= 3weeks - Abdomen= 6 weeks - Head and neck= 12 weeks - Thorax= 5 weeks
 -Lower limb = 6 weeks - Pelvis= 2 weeks - Neuroanatomy= 7 weeks

Practical schedule and teaching staff

Day	Second year (8:00 am - 11: am)		First year(2:00 pm - 5:00 pm)		
	Hall A	Hall B	Hall A	Hall B	
Sunday	Group (2) -Prof Dr Mahmoud Al-Najjar, -Prof Dr Abdel-Ma'boudEmara Ass. - Fayez, -Khidr -Yousif	Group (3) -Prof Dr Mokhtar Al-Assaly -Prof Dr Gamal Desouki Ass. -Mandour -Abdel Lateef -Gahin, - Younis	Group (1) -Prof Dr Mohamed Ebada -Prof Dr HssainEmara -Dr Ahmed El-Banna Ass. - Fayez, -Khidr -Yousif	Group (2) Prof Dr Ahmed Maher -Prof Dr Mohamed Alhady Ass. -Mandour -Abdel Lateef -Gahin, - Younis	First year (Malaysia): -Abdel Lateef Second year (Malaysia): -Mandour Dentistry: -Fayez,
Monday	Group (3) -Prof Dr Wahid Yousry -Dr Ahmed El-Banna Ass. -Demerdash -Ashraf -Taiceer -Yousif -Younis	Group (4) Prof Dr Abdel-Aziz - Shohda Prof Dr SobhyEwais- Ass. -Fayez -Kamal -Mandour -Abdel Lateef -Agaba	Group (2) -Prof Dr Ahmed Mustafa -Dr Ahmed El-Banna Ass. -Kamal -Taiceer -Yousif	Group (3) -Pro Dr Ashraf Abel-Rahman Ass. -Fayez -Ashraf -Mandour -Younis -Agaba	Dentistry: -Demerdash -Ashraf
Tuesday	Group (4) -Prof Dr Mohamed Ebada -Prof Dr HssainEmara -Dr AlaaSemary Ass. -Ashraf -Abdel Aziz -Gahin -Younis	Group (5) -Prof Dr Ahmed Maher -Prof Dr YahiaYousof -Prof Dr Ahmed Sun'Allah Ass. -Demerdash -Khidr -Agaba	Group (3) -Prof Dr Mokhtar Al-Assaly -Prof Dr Abdel-Ma'boudEmara -Dr Ahmed El-Banna Ass. -Abdel Lateef -Abdel Aziz -Khidr -Younis	Group (4) -Prof Dr Mahmoud Al-Najjar, -Prof Dr Gamal Desouki -Dr AlaaSemary Ass. -Ashraf -Agaba -Gahin	First year (Malaysia): -Abdel Lateef Second year (Malaysia): -Demerdash
Wednesday	Group (5) -Prof Dr Ahmed Mustafa -Dr AlaaSemary Ass. -Kamal -Taiceer -Gahin	Group (1) -Pro Dr Ashraf Abel-Rahman Ass. -Arafat -Yousif -Abdel Aziz	Group (4) -Prof Dr Mohamed Swailum - Prof Dr Mustafa Al-Gizawy Ass. -Arafat -Yousif -Abdel Aziz	Group (5) -Prof Dr Wahid Yousry Prof Dr Abdel-Aziz - Shohda Ass. -Kamal -Taiceer -Gahin	Pharmacy -Arafat -Taiceer
Thursday	Group (1) -Prof Dr Mohamed Alhady Ass. -Demerdash -Kamal -Taiceer -Abdel Aziz -Agaba	Group (2) -Prof Dr Mohamed Swailum - Prof Dr Mustafa Al-Gizawy Ass. -Fayez -Mandour -Arafat -Khidr	Group (5) -Prof Dr YahiaYousof-Dr AlaaSemary Ass. -Demerdash -Kamal -Abdel Aziz	Group (1) -Prof Dr Ahmed Sun'Allah Prof Dr SobhyEwais- Ass. -Fayez -Ashraf -Taiceer -Khidr -Agaba	Nursery -Kamal



Course specification 1st year student

Course specification

University: Al-Azhar University

Faculty: Faculty of medicine- Cairo

Department: Human Anatomy 2016 – 2017

1- Data of the course:

Code: 07-102 – ant	Title of the course Anatomy and general embryology for the 1st year of MBBCh program	Year: 1 st year student Duration: 30 weeks
	Number of teaching unites:	Lectures: 150 hrs Practical: 180 hrs
Objective of the course:	<p>The aim of this course is to help students to acquire the basic anatomical background and human embryology which they will need to function as physicals to acquire facilities with the anatomical terms used in discussions among medical professionals.</p> <p>The course is designed to introduce the student to:</p> <ol style="list-style-type: none">1- Medical terminology and methods used in gathering information.2- Understanding of the structure and organization of the human body.3- Basic anatomical structures of the body and how they are integrated to form functional units.4- The correlation between structure and function.5- An awareness of how anatomical knowledge may be applied effectively in clinical and scientific context.6- The beginnings of an understanding of how to pursue independent and self-learning and how to communicate and work effectively in small groups.	

2- ILos

A. Knowledge understanding	and	<ol style="list-style-type: none">1- Describe the normal structure and function of human body and correlate structure the their function.2- Describe the normal faces of growth and development of the human body.3- Recognize the development of human abilities.4- Identify the principle of genetics the role of genetics in
-----------------------------------	-----	--

	<p>health and disease</p> <p>5- Recognize the surface landmarks and projection in physical examination and understand landmarks and internal structures.</p> <p>6- Recognize the important individual human body structures correctly and comprehend the topographic anatomy of the regions of abdomen, pelvis, perineum and extremities by demonstration of previous dissected human cadavers and museum study.</p> <p>7- Recognize the important joints of the body, their movements and muscle producing these movements.</p> <p>8- Describe muscle groups, their actions, nerve supply and effect of common nerve injury.</p> <p>9- Recognize the general plan of innervations of lower limb, upper limb , abdomen, pelvis and perineum.</p> <p>10- Awareness of common anatomical variation.</p> <p>11- Describe early normal development of human embryo (general embryology) and acquire information about common developmental anomalies.</p>
<p>B. Intellectual skills:</p>	<p>By the end of this course the student should be able to:</p> <p>1- Interpret common normal diagnostic images of eth lower limb</p> <p>2- Interpret common diagnostic images of the upper limb.</p> <p>3- Apply the anatomical facts while examining the living subject in order to reach a proper diagnosis.</p> <p>4- Identify the different surface markings and determine the position or course of internal structures.</p> <p>5- Identify the different internal structures in cadavers and preserved specimens</p>
<p>C. Professional skills</p>	<p>1- Demonstrate, by inspection, palpation and percussion, important bony landmarks, muscles, tendons, blood vessels .. nerves and viscera on the living body and interpret normal radiograms and C.T. scans of the body.</p> <p>2- Use effective com1nunication skills and provide intonation using effective nonverbal, explanatory, questioning, and writing skills.</p> <p>3- Use appropriate techniques and effective skills for collaborating with and teaching fellow students, including strategies for teaching and learning small groups.</p>

	<p>4- Demonstrate a combination of knowledge, skills and attitudes necessary to function as a member of a team in both small group and large class settings.</p> <p>5- Use information technology to access on-line medical intonation and support their education.</p>
D. General skills	<p>Develop concepts and sufficient understanding of the subject to be able to:</p> <p>1- Pursue continuing medical education and develop habits of self-learning.</p> <p>2- Demonstrate a commitment to personalize professional ideals and plan for professional growth consistent with the Statement of academic integrity for Al Azhar Medical School, Cadaver respect.</p> <p>3- Respect Laboratory regulations and security.</p>

3- course contents:

- 1- Anatomy of the Lower Limb
- 2- Anatomy of the Upper Limb
- 3- Anatomy of the Abdomen and Pelvis
- 4- General Embryology

4- Methods of teaching:

- 1- Lectures.
- 2- Pre - lab. and small group discussion
- 3- Practical sessions.
- 4- Museum

5- Students evaluations and assessments:

a. Method of assessment:	<ol style="list-style-type: none"> 1- MCQs 2- OSPE, practical exam to assess the ability of the student to identify structures indicated on prosected specimens and on dry specimens (bone or plastinated specimens) and to respond to questions related to given structures. 3- Essay Qs to measure the ability of the students to identify and apply anatomical knowledge in a comprehensive written way. 4- Oral (problem solving) to assess the
--------------------------	---

	ability of the students to identify and apply anatomical knowledge in a comprehensive oral way to indentify and apply anatomical knowledge in a comprehensive oral way to identify and apply anatomical knowledge in a comprehensive oral way
b. Time of assessment	Mid-year exam in January of the academic year Final year exam in June of the academic year
c. Allocated marks/Distribution	- Included in the 20% marks of the mid-year exam. - Included in the 48% final exam. - Included in the 16% oral exam. - Included in the 16 % practical exam. Total marks: 250 marks.

7- teaching books, notebooks, and reference:

- books/ Notebooks:	Department books رقم الإيداع 2015/525 دار التمني للطباعة
- references:	Gray's anatomy The anatomical basis of clinical practice. 41 st ed, 2016 Standring S, Elsevier London.

Coarse Coordinator

Head of the department

Prof. Dr. Mohamed A. Autifi

2016 / 2017



Course specification 2nd year student

Course specification

University: Al-Azhar University

Faculty: Faculty of medicine- Cairo

Department: Hunan Anatomy 2016 – 2017

3- Data of the course:

Code: 07-102 – ant	Title of the course Anatomy and general embryology for the 2nd year of MBBCh program	Year: 2nd year student Duration: 30 weeks
	Number of teaching unites:	Lectures: 150 hrs Practical: 180 hrs

Objective of the course:	<p>The aim of this course is to help students to acquire the basic anatomical background and human embryology which they will need to function as physicals to acquire facilities with the anatomical terms used in discussions among medical professionals.</p> <p>The course is designed to introduce the student to:</p> <ul style="list-style-type: none">8- Medical terminology and methods used in organization and identification of the structure of the human body.9- Basic anatomical structures of the body and how they are integrated to form functional units.10- The correlation between structure and function.11- An awareness of how anatomical knowledge may be applied effectively in clinical and scientific context.12- The beginnings of an understanding of how to pursue independent and self-learning and how to communicate and work effectively in small groups.
-------------------------------------	--

4- ILos

<p>E. Knowledge and understanding</p>	<p>12- Describe the normal structure and function of human body and correlate structure with their function.</p> <p>13- Describe the normal faces of growth and development of the human body.</p> <p>14- Recognize the development of human abilities.</p> <p>15- Identify the principle of genetics the role of genetics in health and disease</p> <p>16- Recognize the surface landmarks and projection in physical examination and understand landmarks and internal structures.</p> <p>17- Recognize the important individual human body structures correctly and comprehend the topographic anatomy of the regions of Head&Neck..Thorax&Neuroanatomy... by demonstration of previous dissected human cadavers and museum study.</p> <p>18- Recognize the important joints of the body, their movements and muscle producing these movements.</p> <p>19- Describe muscle groups, their actions, nerve supply and effect of common nerve injury.</p> <p>20- Recognize the general plan of innervations of Muscles of Head&Neck ..and Thorax Muscles,&Viscera..</p> <p>21- Awareness of common anatomical variation.</p> <p>22- Describe early normal development of different systems and organs (Special embryology) and acquire information about common developmental anomalies.</p>
<p>F. Intellectual skills:</p>	<p>By the end of this course the student should be able to:</p> <p>6- Interpret common normal diagnostic images of Head&Neck</p> <p>7- Interpret common diagnostic images of the Thorax..Heart&Lungs</p> <p>8- Apply the anatomical facts while examining the living subject in order to reach a proper diagnosis.</p> <p>9- Identify the different surface markings and determine the position or course of internal structures.</p> <p>10- Identify the different internal structures in cadavers and preserved specimens</p>

<p>G. Professional skills</p>	<p>6- Demonstrate, by inspection, palpation and percussion, important bony landmarks, muscles, tendons, blood vessels .. nerves and viscera on the living body and interpret normal radiograms and C.T. scans of the body.</p> <p>7- Use effective communication skills and provide intonation using effective nonverbal, explanatory, questioning, and writing skills.</p> <p>8- Use appropriate techniques and effective skills for collaborating with and teaching fellow students, including strategies for teaching and learning small groups.</p> <p>9- Demonstrate a combination of knowledge, skills and attitudes necessary to function as a member of a team in both small group and large class settings.</p> <p>10- Use information technology to access on-line medical intonation and support their education.</p>
<p>H. General skills</p>	<p>Develop concepts and sufficient understanding of the subject to be able to:</p> <p>2- Pursue continuing medical education and develop habits of self-learning.</p> <p style="padding-left: 40px;">2- Demonstrate a commitment to personalize professional ideals and plan for professional growth consistent with the Statement of academic integrity for Al Azhar Medical School, Cadaver respect.</p> <p style="padding-left: 40px;">3- Respect Laboratory regulations and security.</p>

3- course contents:

- 2- Anatomy of the Head and neck
- 2-Anatomy of the Thorax
- 3_Neuroanatomy
- 4_Special Embryology

4- Methods of teaching:

- 6- Lectures.
- 7- Pre - lab. and small group discussion
- 8- Practical sessions.
- 9- Museum

10- Students evaluations and assessments:

d. Method of assessment:	5- MCQs 6- OSPE, practical exam to assess the ability of the student to identify structures indicated on prosected specimens and on dry specimens (bone or plastinated specimens) and to respond to questions related to given structures. 7- Essay Qs to measure the ability of the students to identify and apply anatomical knowledge in a comprehensive written way. 8- Oral (problem solving) to assess the ability of the students to identify and apply anatomical knowledge in a comprehensive oral way to indentify and apply anatomical knowledge in a comprehensive oral way to identify and apply anatomical knowledge in a comprehensive oral way
e. Time of assessment	Mid-year exam in January of the academic year Final year exam in June of the academic year
f. Allocated marks/Distribution	- Included in the 20% marks of the mid-year exam. - Included in the 48% final exam. - Included in the 16% oral exam. - Included in the 16 % practical exam. Total marks: 250 marks.

13- teaching books, notebooks, and reference:

- books/ Notebooks:	Department books رقم الإيداع 2015/525 دار التمني للطباعة
- references:	Gray's anatomy The anatomical basis of clinical practice. 41 st ed, 2016 Standing S, Elsevier London.

Course Coordinate

Head of the department

Prof. Dr. Mohamed A.Autifi.

2016 / 2017



MEDICAL STUDENTS ASSESSMENT

MEDICAL STUDENTS ASSESSMENT

Attendance criteria: The minimum acceptable attendance in the theoretical, practical and tutorial classes is 75%. Students fail to attend the required percentage will not be allowed to attend the final exam.

Assessment tool:

Tool	Purpose
Written examination	Assessment of knowledge and understanding
Practical examination	Assessment of applied skills
Oral examination	Assessment of attitude, knowledge and understanding
Log book	Assessment of sharing in the overall activities during the academic year.

Assessment schedule:

- A. Regular assessments at the end of each branch. These regular assessments represent in total at the end of the academic year 20% of the total mark.
- B. Practical examination.
- C. Oral examination.
- D. Final examination: In June. Those who fail to pass the final exam or postpone it can enter the final exam re-held in September. ?

Grading system:

Examination	Marks allocated	
Regular assessments	50	
Final examination	Written	130
	Oral	30
	practical	40

Total	250
--------------	-----

A. The minimum passing score is 60% of the total mark (250 marks), provided that at least 30 % (39 marks) are obtained in the written exam.

B. Passing grades are: Excellent $\geq 85\%$, very good $75\% \leq 85\%$, good $65\% \leq 75\%$ and pass $60\% \leq 65\%$.

Examination description:

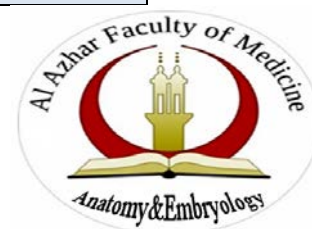
A. **Log book:** (attached at the end) must be completed during the year and every student should have:

1. Attend at least 75% of the practical classes.
2. Actively participated in discussions in tutorial classes.

B. Examination:

Examination	Description	Marks
Regular assessments	Short essay exam MCQ exam	50
Final Exam	A 3 hours written paper composed of short essay and different types of MCQ, matching, complete, & data interpretations etc.	130
Practical exam	In this exam the student has to identify 20 different ligated or marked body structures	40
Oral exam	The student will be	30

	examined by one examiner (1 setting).	
Total		250



MEDICAL STUDENTS INTENDED LEARNING OUTCOMES (ILOS)

A- Essential Knowledge

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

- 1- **Describe** the basic anatomical structure of the different organs and systems of the body.
- 2- **Enumerate** the different branches of nerves and vessels.
- 3- **Explain** the different stages of human development and growth.
- 4- **Explain** the causes of the congenital anomalies.

B- Intellectual Skills

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

- 1- **Make** critical judgments based on a sound knowledge.
- 2- **Interpret** the normal anatomical structures on plain radio-graphs, ultra-Sonography (US), computerized axis topography (C.T. Scan) and magnetic resonance images (MRI).
- 3- **Correlate** his knowledge in embryology with clinical findings caused by errors in development.
- 4- **Recall** the beginning, course termination and minute branches of different nerves and vessels as well as actions of the different muscles.
- 5- **Outline** the major clinical applications of different organ of the body.
- 6- **Predict** clinical signs of nerve injuries based on their normal anatomy.

C- Practical and professional skills

- 1- **Draw** diagrams for different organs, vessels and nerves.
- 2- **Draw** various body structures as reflected on the surface of the body.
- 3- **Design** an anatomical model for different organs.
- 4- **Learn** proper use of models.
- 5- **Assemble** the different internal structures in models.

D- General and transferable skills

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

- 1- **Use** internet in research and communications.
- 2- **Learn** how to work as part of a team.
- 3- **Recognize** the scope and limits of their role as students and the necessity to collaborate with others.

4- **Maintain** a professional image concerning behaviour, dress and speech.

5- **Manage** the time in their study and future career.



Dentistry students



COURSE SPECIFICATION

COURSE SPECIFICATION

COURSE CONTENTS

(A) Basic Human Anatomy

Chapter (1): INTRODUCTION

- Fields of anatomy
- Levels of organization of human body
- Anatomical position
- Anatomical planes
- Anatomical terms

Chapter (2): INTEGUMENTARY SYSTEM

- Skin
- Superficial fascia
- Deep fascia

Chapter (3): SKELETAL SYSTEM

- Human skeleton
- Types of bones
- Arterial supply of long bone
- Nerve supply of long bone
- Cartilage
- Joints
- Types of synovial joints
- Stability of joints
- Blood supply of joints
- Nerve supply of joints

Chapter (4): MUSCULAR SYSTEM

- Types of muscles
- Structure of skeletal muscle
- Arrangement of muscle fibers
- Nomenclature of muscles
- Interaction of skeletal muscles
- Attachment of muscles
- Blood supply of muscles
- Nerve supply of muscles

Chapter (5): NERVOUS SYSTEM

- Structure of neuron
- Types of neuron
- Central nervous system
- Peripheral nervous system
- Autonomic nervous system

Chapter (6): DIGESTIVE SYSTEM

- Mouth

- Pharynx - esophagus - stomach
- Small intestine - Large intestine
- Rectum - anal canal - accessory organs

Chapter (7): CRDIOVASCULAR SYSTEM

- Heart
- Blood vessels
- Blood circulation

Chapter (8): LYMPHATIC SYSTEM

- Lymphatic organs

Chapter (9): RESPIRATORY SYSTEM

- Nose - nasal cavity
- Pharynx
- Larynx - trachea - bronchi
- Lungs

Chapter (10): ENDOCRINE GLANDS

- Pituitary gland – pineal gland
- Thymus - thyroid - parathyroid
- Adrenal glands - pancreas - gonads

Chapter (11): URINARY SYSTEM

- kidneys
- Ureter - urinary bladder

Chapter (12): REPRODUCTIVE SYSTEM

- Male reproductive system
- Female reproductive system

(B) Head and Neck

- Anatomy of the skull, mandible and cervical vertebrae
- Anatomy of scalp and face.
- Tempromandibular joint (TMJ)
- Temporal and infra-temporal fossae and their contents
- Cranial cavity (formation, meninges and Dural venous sinuses).
- Salivary glands
- Oral cavity and pharynx
- Triangles of the neck (posterior, anterior and suboccipital triangles).
- Cranial nerves (V, VII, IX, XII)
- Larynx
- Sympathetic and para-sympathetic ganglia of the head and neck

(C) Embryology

- Development of the skull and mandible
- Development of the pharyngeal arches
- Development of the Oral Cavity (Palate and Tongue)
- Development of the face



DENTISTRY STUDENTS ASSESSMENT

DENTISTRY STUDENTS ASSESSMENT

Attendance criteria: The minimum acceptable attendance in the theoretical, practical and tutorial classes is 75%. Students fail to attend the required percentage will not be allowed to attend the final exam.

Assessment tool:

Tool	Purpose
Written examination	Assessment of knowledge and understanding
Practical examination	Assessment of applied skills
Oral examination	Assessment of attitude, knowledge and understanding
Course work	Assessment of sharing in the overall activities during the academic year.

Assessment schedule:

- A. Final written examination: In June. Those who fail to pass the final exam or postpone it can enter the final exam re-held in September.
- B. Final Practical examination.
- C. Final Oral examination.

Grading system:

Examination		Marks allocated
Course work		20
Final examination	Written	50
	Oral	15
	practical	15
Total		100

A. The minimum passing score is 60% of the total mark (100 marks), provided that at least 30 % (30 marks) are obtained in the written exam.

B. Passing grades are: Excellent $\geq 85\%$, very good $75\% \leq 85\%$, good $65\% \leq 75\%$ and pass $60\% \leq 65\%$.

Examination description:

A. **Course work:** every student should have:

3. Attended at least 75% of the practical classes.
4. Actively participated in discussions in tutorial classes.

B. Examination:

Examination	Description	Marks
Course work assessments	Short essay exam MCQ exam	20
Final Exam	A 3 hours written paper composed of short essay questions	50
Practical exam	In this exam the student has to identify 20 different ligated or marked body structures	15
Oral exam	The student will be examined by one examiner (1 setting).	15
Total		100

DENTISTRY STUDENTS INTENDED LEARNING OUTCOMES (ILOS)

A- Essential Knowledge

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

- 1- **Describe** the basic anatomical structure of the different organs and systems of the body.
- 2- **Enumerate** the different branches of nerves and vessels.
- 3- **Explain** the different stages of human development and growth.
- 4- **Explain** the causes of the congenital anomalies.

B- Intellectual Skills

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

- 1- **Make** critical judgments based on a sound knowledge.
- 2- **Interpret** the normal anatomical structures on plain radio-graphs, ultra-Sonography (US), computerized axis topography (C.T. Scan) and magnetic resonance images (MRI).
- 3- **Correlate** his knowledge in embryology with clinical findings caused by errors in development.
- 4- **Recall** the beginning, course termination and minute branches of different nerves and vessels as well as actions of the different muscles.
- 5- **Outline** the major clinical applications of different organ of the body.
- 6- **Predict** clinical signs of nerve injuries based on their normal anatomy.

C- Practical and professional skills

- 1- **Draw** diagrams for different organs, vessels and nerves.
- 2- **Draw** various body structures as reflected on the surface of the body.
- 3- **Design** an anatomical model for different organs.
- 4- **Learn** proper use of models.
- 5- **Assemble** the different internal structures in models.

D- General and transferable skills

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

- 1- **Use** internet in research and communications.
- 2- **Learn** how to work as part of a team.
- 3- **Recognize** the scope and limits of their role as students and the necessity to collaborate with others.
- 4- **Maintain** a professional image concerning behaviour, dress and speech.
- 5- **Manage** the time in their study and future career



**PHARMACEUTICAL
STUDENTS**



COURSE SPECIFICATION

COURSE CONTENTS

Basic Human Anatomy:

Chapter (1): INTRODUCTION

- Fields of anatomy
- Levels of organization of human body
- Anatomical position
- Anatomical planes
- Anatomical terms

Chapter (2): INTEGUMENTARY SYSTEM

- Skin
- Superficial fascia
- Deep fascia

Chapter (3): SKELETAL SYSTEM

- Human skeleton
- Types of bones
- Arterial supply of long bone
- Nerve supply of long bone
- Cartilage
- Joints
- Types of synovial joints
- Stability of joints
- Blood supply of joints
- Nerve supply of joints

Chapter (4): MUSCULAR SYSTEM

- Types of muscles
- Structure of skeletal muscle
- Arrangement of muscle fibers
- Nomenclature of muscles
- Interaction of skeletal muscles
- Attachment of muscles
- Blood supply of muscles
- Nerve supply of muscles

Chapter (5): NERVOUS SYSTEM

- Structure of neuron
- Types of neuron
- Central nervous system
- Peripheral nervous system
- Autonomic nervous system

Chapter (6): DIGESTIVE SYSTEM

- Mouth
- Pharynx - esophagus - stomach
- Small intestine - Large intestine
- Rectum - anal canal - accessory organs

Chapter (7): CRDIOVASCULAR SYSTEM

- Heart
- Blood vessels
- Blood circulation

Chapter (8): LYMPHATIC SYSTEM

- Lymphatic organs

Chapter (9): RESPIRATORY SYSTEM

- Nose - nasal cavity
- Pharynx
- Larynx - trachea - bronchi
- Lungs

Chapter (10): ENDOCRINE GLANDS

- Pituitary gland – pineal gland
- Thymus - thyroid - parathyroid
- Adrenal glands - pancreas - gonads

Chapter (11): URINARY SYSTEM

- kidneys
- Ureter - urinary bladder

Chapter (12): REPRODUCTIVE SYSTEM

- Male reproductive system
- Female reproductive system



PHARMACEUTICAL STUDENTS ASSESSMENT

ASSESSMENT

Attendance criteria: The minimum acceptable attendance in the theoretical, practical and tutorial classes is 75%. Students fail to attend the required percentage will not be allowed to attend the final exam.

Assessment tool:

Tool	Purpose
Written examination	Assessment of knowledge and understanding
Practical examination	Assessment of applied skills
Oral examination	Assessment of attitude, knowledge and understanding
Course work	Assessment of sharing in the overall activities during the academic year.

Assessment schedule:

- A. Final written examination: In June. Those who fail to pass the final exam or postpone it can enter the final exam re-held in September.
- B. Final Practical examination.
- C. Final Oral examination.

Grading system:

Examination		Marks allocated
Course work		20
Final examination	Written	80
	Oral	40
	practical	60
Total		200

A. The minimum passing score is 60% of the total mark (100 marks), provided that at least 30 % (30 marks) are obtained in the written exam.

B. Passing grades are: Excellent $\geq 85\%$, very good $75\% \leq 85\%$, good $65\% \leq 75\%$ and pass $60\% \leq 65\%$.

Examination description:

C. **Course work:** every student should have:

5. Attended at least 75% of the practical classes.
6. Actively participated in discussions in tutorial classes.

D. Examination:

Examination	Description	Marks
Course work assessments	Short essay exam MCQ exam	20
Final Exam	A 3 hours written paper composed of short essay questions	80
Practical exam	In this exam the student has to identify 20 different ligated or marked body structures	60
Oral exam	The student will be examined by one examiner (1 setting).	40
Total		200

PHARMACEUTICAL STUDENTS INTENDED LEARNING OUTCOMES (ILOS)

A- Essential Knowledge

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

- 1- **Describe** the basic anatomical structure of the different organs and systems of the body.
- 2- **Enumerate** the different branches of nerves and vessels.
- 3- **Explain** the different stages of human development and growth.
- 4- **Explain** the causes of the congenital anomalies.

B- Intellectual Skills

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

- 1- **Make** critical judgments based on a sound knowledge.
- 2- **Interpret** the normal anatomical structures on plain radio-graphs, ultra-Sonography (US), computerized axis topography (C.T. Scan) and magnetic resonance images (MRI).
- 3- **Correlate** his knowledge in embryology with clinical findings caused by errors in development.
- 4- **Recall** the beginning, course termination and minute branches of different nerves and vessels as well as actions of the different muscles.
- 5- **Outline** the major clinical applications of different organ of the body.
- 6- **Predict** clinical signs of nerve injuries based on their normal anatomy.

C- Practical and professional skills

- 1- **Draw** diagrams for different organs, vessels and nerves.
- 2- **Draw** various body structures as reflected on the surface of the body.
- 3- **Design** an anatomical model for different organs.
- 4- **Learn** proper use of models.
- 5- **Assemble** the different internal structures in models.

D- General and transferable skills

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

- 1- **Use** internet in research and communications.
- 2- **Learn** how to work as part of a team.
- 3- **Recognize** the scope and limits of their role as students and the necessity to collaborate with others.
- 4- **Maintain** a professional image concerning behaviour, dress and speech.
- 5- **Manage** the time in their study and future career



**NURSERY
STUDENTS**



COURSE SPECIFICATION

COURSE CONTENTS

Basic Human Anatomy:

Chapter (1): INTRODUCTION

- Fields of anatomy
- Levels of organization of human body
- Anatomical position
- Anatomical planes
- Anatomical terms

Chapter (2): INTEGUMENTARY SYSTEM

- Skin
- Superficial fascia
- Deep fascia

Chapter (3): SKELETAL SYSTEM

- Human skeleton
- Types of bones
- Arterial supply of long bone
- Nerve supply of long bone
- Cartilage
- Joints
- Types of synovial joints
- Stability of joints
- Blood supply of joints
- Nerve supply of joints

Chapter (4): MUSCULAR SYSTEM

- Types of muscles
- Structure of skeletal muscle
- Arrangement of muscle fibers
- Nomenclature of muscles
- Interaction of skeletal muscles
- Attachment of muscles
- Blood supply of muscles
- Nerve supply of muscles

Chapter (5): NERVOUS SYSTEM

- Structure of neuron
- Types of neuron
- Central nervous system
- Peripheral nervous system
- Autonomic nervous system

Chapter (6): DIGESTIVE SYSTEM

- Mouth
- Pharynx - esophagus - stomach
- Small intestine - Large intestine
- Rectum - anal canal - accessory organs

Chapter (7): CRDIOVASCULAR SYSTEM

- Heart
- Blood vessels
- Blood circulation

Chapter (8): LYMPHATIC SYSTEM

- Lymphatic organs

Chapter (9): RESPIRATORY SYSTEM

- Nose - nasal cavity
- Pharynx
- Larynx - trachea - bronchi
- Lungs

Chapter (10): ENDOCRINE GLANDS

- Pituitary gland – pineal gland
- Thymus - thyroid - parathyroid
- Adrenal glands - pancreas - gonads

Chapter (11): URINARY SYSTEM

- kidneys
- Ureter - urinary bladder

Chapter (12): REPRODUCTIVE SYSTEM

- Male reproductive system
- Female reproductive system



ASSESSMENT

ASSESSMENT

Attendance criteria: The minimum acceptable attendance in the theoretical, practical and tutorial classes is 75%. Students fail to attend the required percentage will not be allowed to attend the final exam.

Assessment tool:

Tool	Purpose
Written examination	Assessment of knowledge and understanding
Practical examination	Assessment of applied skills
Oral examination	Assessment of attitude, knowledge and understanding
Course work	Assessment of sharing in the overall activities during the academic year.

Assessment schedule:

- A. Final written examination: In June. Those who fail to pass the final exam or postpone it can enter the final exam re-held in September.
- B. Final Practical examination.
- C. Final Oral examination.

3.4.2.4 Grading system:

Examination		Marks allocated	
		First year	Fourth year
Course work		6	.....
Final examination	Written	24	30
	Oral	.....	20
	practical	.....	.....
Total		30	50

A. The minimum passing score is 60% of the total mark (100 marks), provided that at least 30 % (30 marks) are obtained in the written exam.

B. Passing grades are: Excellent $\geq 85\%$, very good $75\% \leq 85\%$, good $65\% \leq 75\%$ and pass $60\% \leq 65\%$.

Examination description:

A. **Course work:** every student should have:

7. Attended at least 75% of the practical classes.
8. Actively participated in discussions in tutorial classes.

B. Examination:

Examination	Description	Marks	
		First year	Fourth year
Course work assessments	Short essay exam MCQ exam	6	.....
Final Exam	A 3 hours written paper composed of short essay questions	24	30
Practical exam	In this exam the student has to identify 20 different ligated or marked body structures	.....	.....
Oral exam	The student will be examined by one examiner (1 setting).	.....	20
Total		30	50

NURSERY

STUDENTS INTENDED LEARNING OUTCOMES (ILOS)

A- Essential Knowledge

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

- 1- **Describe** the basic anatomical structure of the different organs and systems of the body.
- 2- **Enumerate** the different branches of nerves and vessels.
- 3- **Explain** the different stages of human development and growth.
- 4- **Explain** the causes of the congenital anomalies.

B- Intellectual Skills

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

- 1- **Make** critical judgments based on a sound knowledge.
- 2- **Interpret** the normal anatomical structures on plain radio-graphs, ultra-Sonography (US), computerized axis topography (C.T. Scan) and magnetic resonance images (MRI).
- 3- **Correlate** his knowledge in embryology with clinical findings caused by errors in development.
- 4- **Recall** the beginning, course termination and minute branches of different nerves and vessels as well as actions of the different muscles.
- 5- **Outline** the major clinical applications of different organ of the body.
- 6- **Predict** clinical signs of nerve injuries based on their normal anatomy.

C- Practical and professional skills

- 1- **Draw** diagrams for different organs, vessels and nerves.
- 2- **Draw** various body structures as reflected on the surface of the body.
- 3- **Design** an anatomical model for different organs.
- 4- **Learn** proper use of models.
- 5- **Assemble** the different internal structures in models.

D- General and transferable skills

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

- 1- **Use** internet in research and communications.
- 2- **Learn** how to work as part of a team.
- 3- **Recognize** the scope and limits of their role as students and the necessity to collaborate with others.
- 4- **Maintain** a professional image concerning behaviour, dress and speech.
- 5- **Manage** the time in their study and future career

