Mansoura University
Faculty of Medicine

Log Book

Anatomy Department

2016 - 2017

ختم القسم

إيصال تسليم Log Book

اسم الطالب : .....

الفرقة : .....

رقم الجلوس : .....

تاريخ التسليم : .....

توقيع المستلم : .....

رسالــة الكلــية

"تقديم مستوى عال التميز فى التعليم والتدريب الطبى
وتقديم خدمات صحية متميزة للمجتمع
عن طريق المراكز الطبية المتخصصة
وكذلك الإرتقاء بالبحث العلمى"

رؤيــة الكلــية

"أن نصنف إقليميا ونحقق التميز فى التعليم الطبى
والبحوث وخدمة المجتمع"

Course Specification 2015/2016

For the Anatomy (first year)

Faculty : Medicine
Department : Anatomy and Embryology Department

Course Specification:

Programme (s) on which the course is given : M.B.B.Ch program
Department offering the course : Anatomy and Embryology
Academic year / level : 1st year
Date of specification approval : 29/12/2015

A- Basic information:

Title: Medical Physiology Code: ANT.1
Lecture: 120 Tutorial: Practical 120 Total: 240

B- Professional Information:

1 - Overall Aims of Course

The overall aim of the course is to provide the students with the basic anatomical knowledge of the normal structure of the human body at the level of organs and systems of the upper limb, thorax, abdomen, pelvis and perineum and the normal growth and development of the different parts of the body and abnormalities that can occur on development of gastro-intestinal tract.

2 – Intended Learning Outcomes of Course (ILOs)

A - Knowledge and Understanding:

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

A 1. Describe the basic anatomical structure of the different organs and systems of the human body
A 2. Recognize the surface landmarks of the underlying bones, muscles and tendons, and internal structures (main nerves, vessels and viscera) of upper limb, thorax, pelvis and abdomen
A 3. Enumerate the different branches of nerves and vessels upper limb, thorax, pelvis and abdomen
A 4. Explain the actions of the different muscles of the upper limb, thorax, pelvis and abdomen
A 5. Distinguish the movements of different joints and the muscles responsible for each movement of upper limb, thorax, pelvis and abdomen.
A 6. Explain the clinical signs of nerve injuries of the upper limb based on their normal anatomy
A 7. Explain the different stages of human development and growth.
A 8. Explain the anatomical facts based on their development
A 9. Discuss errors in development of the different parts of gastro-intestinal tract
A 10. Explain the causes of the congenital anomalies

B- Intellectual Skills:

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

B 1. Integrate the anatomical facts while examining the living subject in order to reach a proper diagnosis
B 2. Relate the surface markings of different structures determine the position or course of internal structures
B 3. Assemble the different internal structures

B 4. Correlate the anatomical knowledge with clinical signs seen in cases of nerve injuries of upper limb
B 5. Correlate his knowledge in embryology with clinical findings caused by errors in development

P-Professional and Practical Skills:

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

C1- Perform an anatomical model for different organs
C2- Draw diagrams for different organs, vessels and nerves.
C3- Elicit the normal anatomical structures on radiographs, ultrasonography, C.T. scan and nuclear magnetic resonance images

T- General and Transferable Skills:

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

D1 Plan and work as a team.
D2 Use internet and learn searching skills.
D3 Recognize the scope and limits of their role as students and the necessity to collaborate with others

3 – Contents:

Topics	Number of hours	lectures	Practical
1.Introduction, general anatomy of: 1. Anatomical planes & terminology	**1**	**1**	**-**
2. Bones (types and general features).	**1**	**1**	**-**
3. Cardiovascular & Lymphatic systems.	**2**	**2**	**-**
4. Nervous system: anatomical organization	**1**	**1**	**-**
5. Joints (types).	**2**	**2**	**-**
6.Anatomical aspects of the skin.	**1**	**1**	**-**
7.General anatomy of the muscles	**2**	**2**	**-**
2.Upper limb: 1. Bones of upper limb (clavicle, scapula, humorous)	**3**	**1**	**2**
2. Pectoral region (breast, muscles and fascia).	**3**	**1**	**2**
3. Axilla (boundaries and contents).	**2**	**1**	**1**
4. Back (muscles and intermuscular spaces).	**2**	**1**	**1**
5. Shoulder region (muscles, vessels and nerves).	**2**	**1**	**1**
6. Anterior & posterior compartment of arm (muscles, vessels and nerves).	**6**	**3**	**3**
7. Cubital fossa (boundaries and contents).	**3**	**1**	**2**
8. Bones of forearm (general and special features of radius and ulna).	**3**	**1**	**2**
9. Front of forearm (muscles, vessels and nerves).	**6**	**2**	**4**
10. Back of forearm (muscles, vessels and nerves).	**6**	**2**	**4**
11. Hand (muscles, retinaculum, vessels and nerves).	**7**	**3**	**4**
12. Joints (type, ligaments, movements, nerve supply, blood supply and applied anatomy).	**7**	**3**	**4**
13. Nerve injury (brachial plexus, ulnar, radial and median nerves injury).	**6**	**2**	**4**

14.Applied & radiological anatomy	**8**	**2**	**6**
3.Thorax: 1. Chest wall (intercostal muscles, nerves and vessels).	**7**	**3**	**4**
2. Mediastinum (boundaries and contents).	**6**	**2**	**4**
3. Lung (shape, fissures, surface anatomy, blood and nerve supply) & Pleura (recesses, surface anatomy).	**8**	**4**	**4**
4. Pericardium (function and sinuses)	**3**	**1**	**2**
5. Heart, coronary arteries, venous drainage, nerve supply & surface anatomy.	**11**	**5**	**6**
6. Great vessels (arch of aorta, SVC, IVC and descending aorta) & nerves (phrenic, vagus and sympathetic chain).	**12**	**6**	**6**
7. Thoracic duct (length, coarse, drainage, relations).	**2**	**1**	**1**
8. Thoracic part of trachea (length, coarse, constrictions, blood, nerve supply and relations)	**2**	**1**	**1**
9. Thoracic part of esophagus (length, coarse, constrictions, blood, nerve supply and relations).	**3**	**1**	**2**
4.Abdomen & Pelvis: 1. Anterior Abdominal wall (skin, fascia, muscles, vessels and nerves).	**5**	**2**	**3**
2. Peritoneum (def., compartments, recesses, lesser sac).	**5**	**2**	**3**
3. Stomach (features, shape, blood nerve supply and surface anatomy).	**2**	**1**	**1**
4. Spleen (site, impressions blood nerve supply and applied anatomy) & Coeliac trunk (origin and branches splenic, hepatic and LT gastric artery).	**3**	**1**	**2**
5. Pancreas (features, relations, blood and nerve supply) & duodenum (parts, relations, blood and nerve supply).	**6**	**2**	**4**
6. Small intestine (length, parts, blood nerve supply and peritoneal covering).	**4**	**1**	**3**
7. Large intestine (features, parts, mesentery, blood and nerve supply).	**9**	**4**	**5**
8. Superior & inferior mesenteric vessels (beginning, coarse, relations, termination and branches).	**4**	**2**	**2**
9.Liver (site, lobes, features, relations, peritoneal covering, blood, nerve supply and surface anatomy).	**9**	**5**	**4**
10.Extrahepatic biliary system (common hepatic duct, cystic duct, common bile duct).	**3**	**1**	**2**
11.Portal circulation (origin, coarse, termination and tributaries) & porto-systemic anastomosis	**3**	**3**	**-**
12. Kidney (site, features, blood, nerve supply and surface anatomy).	**5**	**1**	**4**

13. Suprarenal gland (site, blood, nerve supply and relations).	**3**	**3**	**-**
14. Ureter (length, constrictions, blood, nerve supply and surface marking).	**2**	**1**	**1**
15. Posterior abdominal Wall (muscles and fascia).	**4**	**-**	**4**
16. Bony pelvis (hip bone and sacrum).	**2**	**1**	**1**
17. Muscles of the pelvis (levator ani and coccyges muscles).	**3**	**1**	**2**
18. Pelvic viscera (rectum, anal canal, UB, urethra, vas deferens, uterus, vagina, prostate).	**8**	**4**	**4**
19. Blood supply of the pelvis (internal iliac vessels, anterior and posterior iliac vessels).	**4**	**2**	**2**
20. Pelvic peritoneum	**3**	**2**	**1**
21. Perineum: urogenital triangle and anal triangle, superficial and deep perineal pouches, ischiorectal fossa, pudendal nerve and internal pudendal vessels.	**5**	**3**	**2**
5.Embryology: 1. Male genital system.	**1**	**1**	**-**
2. Female genital system.	**1**	**1**	**-**
3. Gametogenesis (spermatogenesis and oogenesis).	**1**	**1**	**-**
4. Ovarian cycle (duration and stages).	**1**	**1**	**-**
5. Menstrual cycle (stages and its duration).	**1**	**1**	**-**
6. First week of pregnancy	**2**	**2**	**-**
7. Second week of pregnancy.	**2**	**2**	**-**
8. Third week of pregnancy.	**2**	**2**	**-**
9. Fetal membranes.	**2**	**2**	**-**
10. Placenta (features and anomalies).	**2**	**2**	**-**
11. Twins.	**1**	**1**	**-**
12. Development and anomalies of G.I.T.	**4**	**4**	**-**
TOTAL	**240**	**120**	**120**

Content ILOs Matrix:

	A										B					C			D		
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	1	2	3
Introduction and general anatomy	●																				
Upper limb		●	●	●	●	●					●	●	●	●			●	●	●	●	●
Thorax		●	●	●	●						●	●	●			●	●	●	●	●	●
Abdomen and pelvis		●	●	●	●						●	●	●			●	●	●	●	●	●
Embryology							●	●	●	●					●				●	●	●

4 – Teaching and Learning Methods

Teaching Methods	Description
Lectures	The lecturers are conducted using: a. Audiovisual aids through animations and diagrams b. Interaction with the students through questions
Practical lessons	❖ The Egyptian students are divided into 10 groups. ❖ The Malaysian students are divided into 3 groups ❖ Each group is divided into three subgroups (A, B, C) ❖ The practical teaching is conducted using: **a.** Models **b.** Skeletons and individual bones **c.** Prossected specimens **d.** Plastinated specimens **e.** Plain X-ray films **f.** X-ray with dye films **g.** CT scan films **h.** MRI films **i.** Diagrams and posters **j.** Video tapes and movies. **k.** Power point presentations
Self learning	Self learning through giving them certain topics to search, collect data and present it in front of senior staff

5 – Student Assessment Methods:

Assessment ILOs matrix:

	A										B					C			D		
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	1	2	3
Written Examination	●	●	●	●	●	●	●	●	●	●											
Structured Oral exam.	●						●	●	●	●	●	●	●								
Objective structured Practical exam.			●	●		●	●						●					●			
Log book		●										●			●		●				
Activity (all over the year)														●	●	●	●	●	●	●	●
Mid year exam	●	●	●	●	●																

Weight of the assessment:

Method of Assessment	Marks		Percentage
Final Written exam.	125 (30% MCQ,70%short essay)		50%
Objective structured Practical exam.	50	75	30%
Structured Oral exam.	25		
Midyear exam.	40	50	20%
Activity	5		
Log book	5		
Total	250		100%

Assessment Schedule:

Method of assessment	Description
Midyear written examination	Held at January, students should submit their Log books to sit for the examination
Final written examination	At the end of the academic year for all students.
Objective structured Practical exam.	At the end of the academic year for all students.
Structured Oral exam.	Held by the end of the academic year.
Activity	Essay and presentation by the end of the academic year
Log book	Students should submit their Log books to sit for the Midyear written examination

6 – List of References

6.1- Course Notes — Book authorized by department

6.2- Essential Books (Text Books)
a Cunningham's anatomy.
b) Gray's anatomy.
c) National books

7 – Facilities Required for Teaching and Learning

1. Dissecting room including cadavers, bones, plastic models and plastinated specimens.
2. Museum specimens and x-ray.
3. Visual aids.

Course Coordinator: **Prof. Dr. Adel Abdel-Mohdy Al Hawary**

Head of Department: **Prof. Dr. Adel Abdel-Mohdy Al Hawary**

GENERAL BLUEPRINT FOR FIRST YEAR

ANATOMY & EMBRYOLOGY DEPARTMENT

2015 - 2016

DISTRIBUTION OF TOTAL MARKS ON THE EXAMS

	Teaching Hours:	Relative weight	Total Marks	Final written	Final MCQ	Midyear MCQ:
Introduction:	10	8.33%	14	5	3	6
Thorax:	24	20.00%	33	14	7	12
Upper limb:	24	20.00%	33	15		11
Abdomen:	27	22.50%	37			–
Pelvis:	15	12.50%	21			–
Embryology:	20	16.67%	28			11
Total:	120	100.00%	165	90	35	40

INTRODUCTION

Total marks: 16 marks.

Percentage: 6.7%

Distribution:

	Teaching hours:	Final written & MCQ	Midyear MCQ:	Mark
Terms & planes:	1	1	1	2
Skin & fascia:	1	1	1	2
Muscle:	1	1.5	0.5	2
Bone:	1	2	0.5	2.5
Joint:	2	2	0.5	2.5
C.V.S & Lymphatic:	1	1	1	2
	1	0.5	0.5	1
Serous membranes & endocrine:	1	1	1	2
C.N.S:	1	0.5	0.5	1
Total:	10	10	6	16

THORAX

Total marks: **55 marks.**

Percentage: **22.9%**

Distribution:

	Teaching hours:	Final written & MCQ	Midyear MCQ:	OSPE	Mark
Thoracic wall:	**3**	**4**	**2**	**1**	**7**
Lung & pleura:	**4**	**4**	**2**	**3**	**9**
Heart & pericardium:	**6**	**6**	**2**	**3**	**11**
Mediastinum:	**2**	**1.5**	**1**	**1**	**3.5**
Vessels of thorax:	**5**	**2**	**1**	**1**	**4**
Nerves of thorax:	**1**	**1.5**	**1**	**1**	**3.5**
Viscera:	**1**	**2**	**1**	**1**	**4**
Lymphatics:	**1**	**1.5**	**1**	**_**	**2.5**
Bones & Joints:	**1**	**1.5**	**1**	**7**	**9.5**
Total:	**24**	**25**	**12**	**18**	**55**

UPPER LIMB

Total marks: **56 mark.**

Percentage: **23.3%**

Distribution:

	Teaching hours:	Final written & MCQ	Midyear MCQ:	OSPE	Mark
Muscles:	**8**	**6**	**2**	**3**	**11**
Vessels:	**4**	**4**	**2**	**3**	**9**
Nerves:	**5**	**7**	**3**	**5**	**15**
Regions:	**5**	**6**	**3**	**2**	**11**
Bones:	**1**	**_**	**_**	**6**	**6**
Joints:	**1**	**2**	**1**	**1**	**4**
Total:	**24**	**25**	**11**	**20**	**56**

ABDOMEN

Total marks: **47 marks.**

Percentage: **19.6%**

Distribution:

	Teaching hours:	Final written & MCQ	OSPE	Mark
Anterior Abdominal Wall & Male genitalia:	3	4.5	2	6.5
Posterior Abdminal Wall:	2	2.5	1.5	4
GIT {stomach to sigmoid colon}:	6	4.5	5	9.5
Peritoneum:	3	2.5	1.5	4
GIT organs:	10	7.5	10	17.5
Blood supply of GIT	3	3.5	2	5.5
Total:	27	25	22	47

PELVIS

Total marks: 30 marks.

Percentage: 12.5%

Distribution:

	Teaching hours:	Final written & MCQ	OSPE	Mark
Bones of pelvis:	**1**	**1**	**1**	**2**
Muscles of pelvis:	**1**	**1**	**1**	**2**
Pelvic urinary organs:	**3**	**2**	**3**	**5**
Pelvic digestive organs:	**3**	**2**	**4**	**6**
Female genital organs:	**3**	**3**	**3**	**6**
Vessels of pelvis:	**1**	**1**	**1**	**2**
Perineum:	**3**	**5**	**2**	**7**
Total:	**15**	**15**	**15**	**30**

GENERAL EMBRYOLOGY

Total marks: **36 marks.**

Percentage: **15%**

Distribution:

	Teaching hours:	Final written & MCQ	Midyear MCQ:	Mark
Gametogenesis:	**1**	**2.5**	**2**	**4.5**
Reproductive cycles:	**2**	**2**	**2**	**4**
1st week:	**2**	**2.5**	**2**	**4.5**
2nd week:	**2**	**2.5**	**2**	**4.5**
3rd week:	**2**	**3**	**3**	**6**
Fetal membranes:	**4**	**5**	**_**	**5**
Twins:	**1**	**1**	**_**	**1**
Foregut:	**1**	**3**	**_**	**3**
Midgut:	**2**	**2.5**	**_**	**2.5**
Hingut:	**1**	**1**	**_**	**1**
Total:	**18**	**25**	**11**	**36**

ANATOMY LOG BOOK

1ST YEAR

2016/2017

رؤية كلية طب المنصورة

رؤية الكلية

أن نصنف إقليميا ونحقق التميز فى التعليم الطبى والبحوث وخدمة المجتمع.

Vision

To be ranked regionally and to achieve excellence in medical education, research and community service.

رسالة كلية طب المنصورة

رسالة الكلية

تقديم مستوى عال التميز فى التعليم والتدريب الطبى وتقديم خدمات صحية متميزة للمجتمع عن طريق المراكز الطبية المتخصصة وكذلك الإرتقاء بالبحث العلمى.

Mission

To provide distinguished best practice in medical education and community health care services through our specialized medical centers and scientific research.

Basic information	
Program title	Bachelor of Medicine and Surgery; MB, Bch
Department offering the course	Anatomy
Academic year	First year
Total teaching hours	Total: 9 Lectures: 5 Practical: 4
Allocated marks	250 Marks
Allocated duration	September through May
Course director	Prof. Dr. Adel EL Hawary Head of the Department
Teaching staff	Professors : 12 Assistant professors: 3 Lecturers: 11 Assistant lecturers: 20 Demonstrators: 12

Weighing of assessment

	Percentage	Method	Weight
Mid-year exam	**20%**	MCQ	40 marks (16%)
Student activity		Power point Presentation	10 Marks (4%)
Final exam	**80%**	Written exam	90 Marks (36%)
		MCQ exam	35 Marks (14%)
		Practical (OSPE)	50 Marks (20%)
		Oral exam (OSPE)	25 marks (10%)
Total	**100%**		**250 Mark**

Course Specification

2015/2016

For the Anatomy (first year)

Faculty : Medicine

Department : Anatomy and Embryology Department

Course Specification:

Programme (s) on which the course is given : M.B.B.Ch program

Department offering the course : Academic year / level : Anatomy and Embryology 1st year

Date of specification approval : 29/12/2015

A- Basic information:

Title: Medical Physiology Code: ANT.1

Lecture: 120 Tutorial: Practical 120 Total: 240

B- Professional Information:

1 - Overall Aims of Course

The overall aim of the course is to provide the students with the basic anatomical knowledge of the normal structure of the human body at the level of organs and systems of the upper limb, thorax, abdomen, pelvis and perineum and the normal growth and development of the different parts of the body and abnormalities that can occur on development of gastro-intestinal tract.

2 – Intended Learning Outcomes of Course (ILOs)

A - Knowledge and Understanding:

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

A 1. Describe the basic anatomical structure of the different organs and systems of the human body

A 2. Recognize the surface landmarks of the underlying bones, muscles and tendons, and internal structures (main nerves, vessels and viscera) of upper limb, thorax, pelvis and abdomen

A 3. Enumerate the different branches of nerves and vessels upper limb, thorax and abdomen

A 4. Explain the actions of the different muscles of the upper limb, thorax, pelvis and abdomen

A 5. Distinguish the movements of different joints and the muscles responsible for each movement of

upper limb, thorax, pelvis and abdomen.

A 6. Explain the clinical signs of nerve injuries of the upper limb based on their normal anatomy

A 7. Explain the different stages of human development and growth. A 8. Explain the anatomical facts based on their development

A 9. Discuss errors in development of the different parts of gastro-intestinal tract

A 10. Explain the causes of the congenital anomalies

B- Intellectual Skills:

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

B 1. Integrate the anatomical facts while examining the living subject in order to reach a proper diagnosis

B 2. Relate the surface markings of different structures determine the position or course of internal structures

B 3. Assemble the different internal structures

B 4. Correlate the anatomical knowledge with clinical signs seen in cases of nerve injuries of upper limb
B 5. Correlate his knowledge in embryology with clinical findings caused by errors in development

P-Professional and Practical Skills:

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

C1- Perform an anatomical model for different organs
C2- Draw diagrams for different organs, vessels and nerves.
C3- Elicit the normal anatomical structures on radiographs, ultrasonography, C.T. scan and nuclear magnetic resonance images

T- General and Transferable Skills:

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

D1 Plan and work as a team.
D2 Use internet and learn searching skills.
D3 Recognize the scope and limits of their role as students and the necessity to collaborate with others

3 – Contents:

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1.Introduction, general anatomy of: 1. Anatomical planes & terminology	1	1	-
2. Bones (types and general features).	1	1	-
3. Cardiovascular & Lymphatic systems.	2	2	-
4. Nervous system: anatomical organization	1	1	-
5. Joints (types).	2	2	-
6.Anatomical aspects of the skin.	1	1	-
7.General anatomy of the muscles	2	2	-
2.Upper limb: 1. Bones of upper limb (clavicle, scapula, humorous)	3	1	2
2. Pectoral region (breast, muscles and fascia).	3	1	2
3. Axilla (boundaries and contents).	2	1	1
4. Back (muscles and intermuscular spaces).	2	1	1
5. Shoulder region (muscles, vessels and nerves).	2	1	1
6. Anterior & posterior compartment of arm (muscles, vessels and nerves).	6	3	3
7. Cubital fossa (boundaries and contents).	3	1	2
8. Bones of forearm (general and special features of radius	3	1	2
9. Front of forearm (muscles, vessels and nerves).	6	2	4
10. Back of forearm (muscles, vessels and nerves).	6	2	4
11. Hand (muscles, retinaculum, vessels and nerves).	7	3	4
12. Joints (type, ligaments, movements, nerve supply, blood supply	7	3	4

13. Nerve injury (brachial plexus, ulnar, radial and median nerves injury).	**6**	**2**	**4**

14.Applied & radiological anatomy	**8**	**2**	**6**
3.Thorax: 1. Chest wall (intercostal muscles, nerves and vessels).	**7**	**3**	**4**
2. Mediastinum (boundaries and contents).	**6**	**2**	**4**
3. Lung (shape, fissures, surface anatomy, blood and nerve supply) & Pleura (recesses, surface anatomy).	**8**	**4**	**4**
4. Pericardium (function and sinuses)	**3**	**1**	**2**
5. Heart, coronary arteries, venous drainage, nerve supply & surface anatomy.	**11**	**5**	**6**
6. Great vessels (arch of aorta, SVC, IVC and descending aorta) &	**12**	**6**	**6**
7. Thoracic duct (length, coarse, drainage, relations).	**2**	**1**	**1**
8. Thoracic part of trachea (length, coarse, constrictions, blood, nerve supply and relations)	**2**	**1**	**1**
9. Thoracic part of esophagus (length, coarse, constrictions, blood, nerve supply and relations).	**3**	**1**	**2**
4.Abdomen & Pelvis: 1. Anterior Abdominal wall (skin, fascia, muscles, vessels and nerves).	**5**	**2**	**3**
2. Peritoneum (def., compartments, recesses, lesser sac).	**5**	**2**	**3**
3. Stomach (features, shape, blood nerve supply and surface anatomy).	**2**	**1**	**1**
4. Spleen (site, impressions blood nerve supply and applied anatomy) & Coeliac trunk (origin and branches splenic, hepatic and	**3**	**1**	**2**
5. Pancreas (features, relations, blood and nerve supply) & duodenum	**6**	**2**	**4**
6. Small intestine (length, parts, blood nerve supply and peritoneal covering).	**4**	**1**	**3**
7. Large intestine (features, parts, mesentery, blood and	**9**	**4**	**5**
8. Superior & inferior mesenteric vessels (beginning, coarse, relations, termination and branches).	**4**	**2**	**2**
9.Liver (site, lobes, features, relations, peritoneal covering, blood, nerve supply and surface anatomy).	**9**	**5**	**4**
10.Extrahepatic biliary system (common hepatic duct, cystic duct, common bile duct).	**3**	**1**	**2**
11.Portal circulation (origin, coarse, termination and tributaries) &	**3**	**3**	**-**
12. Kidney (site, features, blood, nerve supply and surface	**5**	**1**	**4**

13. Suprarenal gland (site, blood, nerve supply and	**3**	**3**	**-**
14. Ureter (length, constrictions, blood, nerve supply and surface marking).	**2**	**1**	**1**
15. Posterior abdominal Wall (muscles and fascia).	**4**	**-**	**4**
16. Bony pelvis (hip bone and sacrum).	**2**	**1**	**1**
17. Muscles of the pelvis (levator ani and coccyges muscles).	**3**	**1**	**2**
18. Pelvic viscera (rectum, anal canal, UB, urethra, vas deferens, uterus, vagina, prostate).	**8**	**4**	**4**
19. Blood supply of the pelvis (internal iliac vessels, anterior and posterior iliac vessels).	**4**	**2**	**2**
20. Pelvic peritoneum	**3**	**2**	**1**
21. Perineum: urogenital triangle and anal triangle, superficial and deep perineal pouches, ischiorectal fossa, pudendal nerve	**5**	**3**	**2**
5.Embryology: 1. Male genital system.	**1**	**1**	**-**
2. Female genital system.	**1**	**1**	**-**
3. Gametogenesis (spermatogenesis and oogenesis).	**1**	**1**	**-**
4. Ovarian cycle (duration and stages).	**1**	**1**	**-**
5. Menstrual cycle (stages and its duration).	**1**	**1**	**-**
6. First week of pregnancy	**2**	**2**	**-**
7. Second week of pregnancy.	**2**	**2**	**-**
8. Third week of pregnancy.	**2**	**2**	**-**
9. Fetal membranes.	**2**	**2**	**-**
10. Placenta (features and anomalies).	**2**	**2**	**-**
11. Twins.	**1**	**1**	**-**
12. Development and anomalies of G.I.T.	**4**	**4**	**-**
TOTAL	**240**	**120**	**120**

Content ILOs Matrix:

	A										B					C			D		
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**1**	**2**	**3**	**4**	**5**	**1**	**2**	**3**	**1**	**2**	**3**
Introduction an	●																				
Upper limb		●	●	●	●	●					●	●	●	●			●	●	●	●	●
Thorax		●	●	●	●						●	●	●			●	●	●	●	●	●
Abdomen an		●	●	●	●						●	●	●			●	●	●	●	●	●
Embryology							●	●	●	●					●				●	●	●

4 – Teaching and Learning Methods

Teaching Methods	Description
Lecture	The lecturers are conducted using: a. Audiovisual aids through animations and diagrams
Practical lessons	▯ The Egyptian students are divided into 10 groups. ▯ The Malaysian students are divided into 3 groups ▯ Each group is divided into three subgroups (A, B, C) ▯ The practical teaching is conducted using: **a.** Models **b.** Skeletons and individual bones **c.** Prossected specimens **d.** Plastinated specimens **e.** Plain X-ray films **f.** X-ray with dye films **g.** CT scan films **h.** MRI films **i.** Diagrams and posters **j.** Video tapes and movies
Self learning	Self learning through giving them certain topics to search, collect

5 – Student Assessment Methods:

Assessment ILOs matrix:

	A										B					C			D		
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	1	2	3
Written Examination	●	●	●	●	●	●	●	●	●	●											
Structured Oral exam.	●						●	●	●	●	●	●	●								
Objective structured Practical exam.			●	●		●	●						●					●			
Log book		●										●			●		●				
Activity (all over the year)														●	●	●	●	●	●	●	●
Mid year exam	●	●	●	●	●																

Weight of the assessment:

Method of Assessment	Marks		Percentag
Final Written exam.	125 (30% MCQ,70%short		50%
Objective structured Practical	50	75	30%
Structured Oral exam.	25		
Midyear exam.	40		
Activity	5	50	20%
Log book	5		
Total	250		100%

Assessment Schedule:

Method of assessment	Descriptio
Midyear written examination	Held at January, students should submit their Log books
Final written examination	At the end of the academic year for all students.
Objective structured Practical exam.	At the end of the academic year for all students.
Structured Oral exam.	Held by the end of the academic year.
Activity	Essay and presentation by the end of the
Log book	Students should submit their Log books to sit for the

6 – List of References

6.1- Course Notes Book authorized by department

6.2- Essential Books (Text Books) a Cunningham's anatomy. b) Gray's anatomy. c) National books

7 – Facilities Required for Teaching and Learning

1. Dissecting room including cadavers, bones, plastic models and plastinated specimens.
2. Museum specimens and x-ray.
3. Visual aids.

Course Coordinator: Prof. Dr. Adel Abdel-Mohdy Al Hawary

Head of Department: **Prof. Dr. Adel Abdel-Mohdy Al Hawary**

➢ List of references

Course notes: Mansoura department of anatomy books

Essential & recommended text books:

- Gray's Anatomy For Student
- Snell Rs: Clinical Anatomy By Regions
- Keith Moore, L and Persasud, TVN: The Developing Human
- Langman's Medical Embryology

Essential atlases:

- Netter's interactive Atlas of Anatomy
- Lippincott Williams Atlas of Anatomy
- Grant's Atlas of Anatomy
- Sobotta Atlas of Human Anatomy

Student selected activity (PowerPoint presentation)

Title: ……
……
……
……

Team members	Role of the student

Supervisors

- **Dr:**
- **Assistant lecturer:**
- **Demonstrator:**

Other activities

Student can participate in one of the following activities:

1. Making scientific models.
2. Making posters.
3. Making wall journals (anatomy should be the core of the contents).
4. Help in making anatomical jars.
5. Writing scientific article.
6. Participating in work shop when possible.
7. Giving short talk (presentation).
8. Working as models help demonstrating anatomical facts (example surface anatomy).
9. Winning the best anatomical image (hand draw, digital photo, x-ray, MRI, US, CT, contrast, radioisotopes).
10. Any other activities which might have a good scientific effect).

NB: Departmental committee will look at the student work and will decide marks on that particular work.

1st term Curriculum

Week		Specimen/ jar	At the end you should know (ILOs)
1	A		♦ Describe general features of clavicle & scapula and humerus ♦ Place these bones in anatomical position (right & left)
	B		♦ Identify attachment of muscles of pectoral region &serratus anterior on bone Describe the movement produced by muscles ♦ Attachment of Clavipectoral fascia and structures piercing it.
2	A		♦ Identify muscles of the back & their attachment ♦ Describe the movement produced by muscles
	B		♦ Identify muscles in shoulder region & their attachment ♦ Describe the movement produced by muscles ♦ List rotator cuff muscles
3	A		♦Identify boundaries of axilla & mention its contents ♦ Describe general features of radius & ulna ♦ Place these bones in anatomical position (right & left) ♦ Enumerate bones of hand
	B		♦Identify muscles of arm & their attachment ♦Describe the movement produced by muscles

Week		Specimen/ jar	At the end you should know (ILOs)
4	A		♦ Describe attachment of the superficial muscles of the anterior compartment of forearm ♦Mention the action of the superficial muscles of anterior compartment of forearm
	B		♦ Describe attachment & action of the deep muscles of the anterior compartment of forearm ♦ Describe attachment & relations of flexor retinaculum ♦ Describe, boundaries, roof, floor & contents of cubital fossa
5	A		♦ Describe attachment of the superficial muscles of posterior compartment of forearm ♦ Mention the action of superficial muscles of the posterior compartment of forearm
	B		♦ Describe attachment & action of of the deep muscles of posterior compartment of forearm ♦ Describe attachments & relations of extensor retinaculum ♦ Describe boundaries, roof , floor & contents of anatomical snuffbox ♦ Enumerate muscle groups in the hand ♦ Describe attachment of lumbericals & interossei
6	A		♦Describe stages of brachial plexus ♦ Identify branches of different stages ♦ Describe distribution of axillary N and its injury ♦ Describe distribution of radial N and its injury
	B		♦ Describe distribution of musculocutaneous N and its injury ♦ Describe distribution of median N and its injury ♦ Describe distribution of ulnar N and its injury

Week		Specimen/ jar	At the end you should know (ILOs)
7	A		♦ Describe origin and termination and branches of axillary and brachial arteries ♦ Describe the anastomosis around scapula & surgical neck of humerus& elbow
	B		♦ Describe origin & termination of radial and ulnar arteries in forearm & hand
8	A		♦ Identify the ribs (typical or atypical) ♦ Place the ribs at anatomical position (right /left) ♦ Identify the thoracic vertebra (typical or atypical) ♦ General features of ribs & vertebra and sternum
	B		♦ Identify intercostal muscles and their attachment ♦ Define typical & atypical intercostal nerves ♦ Identify course & distribution of typical intercostal nerves
9	A		♦ Number & Origin and termination of anterior Intercostal arteries ♦ Number & Origin & distribution and termination of posterior Intercostal arteries ♦ Internal thoracic vessels Intercostal veins
	B		♦ Describe boundaries of different parts of mediastinum ♦ Enumerate the contents of different parts of mediastinum ♦ Enumerate structures at the level of sternal angle

Week		Specimen/ jar	At the end you should know (ILOs)
10	A		♦ Describe parts of pleura & its features ♦ Identify apex, base, borders & surfaces of lungs ♦ Identify lobes & fissures of lung ♦Place lungs in anatomical position (right & left)
	B		♦ Identify relations of mediastinal surface of lungs ♦ Define the hilum & identify its content ♦ Blood supply of lungs
11	A		♦ External features of the heart (borders & surfaces) ♦ Surface anatomy of heart ♦ Coronary arteries
	B		♦ Venous drainage of heart ♦ Internal features of chambers of heart ♦ Valves of the heart
12	A		♦ Identify the origin &termination of great vessels in mediastinum ♦ Origin & termination & branches of arteries ♦ Beginning and termination and tributaries of veins ♦ Relationship between different structures in mediastinum
	B		♦ Describe origin & distribution of phrenic, vagus nerves & thoracic sympathetic chain ♦ Describe trachea & esophagus and thoracic duct

2nd term curriculum

Week		Specimen/ jar	At the end you should know (ILOs)
1	A		♦Differentiate lumbar vertebra ♦Identify different parts of hip bones related to abdomen ♦Define planes & regions of abdomen
	B		♦Describe external & internal oblique and transversusabdominins ♦Differentiate between superficial and deep inguinal rings ♦Describe attachment of inguinal ligament & its relations
2	A		♦Describe inguinal canal & its content and describe its related clinical anatomy ♦Describe rectus abdominis muscle & its intersections ♦Describe rectus sheath & mention its contents
	B		♦Describe layers of scrotum & anatomy & coverings of testis ♦Define spermatic cord & mention its contents
3	A		♦Describe muscles of posterior abdominal wall ♦Describe lumbar plexus ♦Describe diaphragm and its foramina
	B		♦Describe parts of stomach ♦Describe relations of stomach & its peritoneal covering. ♦Describe position & relations of spleen ♦Describe peritoneal covering of spleen

Week		Specimen/ jar	At the end you should know (ILOs)
4	A		♦ Describe length & peritoneal covering & relations of parts of duodenum Differentiate between jejunum & ileum
	B		♦ Differentiate between small & large intestine ♦ Describe different parts of large intestine ♦ Describe caecum and appendix
5	A		♦ Describe anatomical & functional lobes ♦ Describe surface anatomy of liver ♦ Describe relations of different surfaces ♦ Identify portahepatis and its content
	B		♦ Identify different parts of extra-hepatic biliary system ♦ Describe gall bladder ♦ Describe relations of different parts of pancreas ♦ Describe pancreatic ducts
6	A		♦ Describe surface anatomy of kidney ♦ Describe relations of kidney ♦ Describe relations of different parts of ureter ♦ Identify constrictions of ureter ♦ Differentiate right & left suprarenal glands
	B		**Revision**

Week		Specimen/ jar	At the end you should know (ILOs)
7	A		♦ Identify different parts of sacrum Describe structures in sacral canal & hiatus Identify parts of hip bone related to pelvis Memorize diameters of pelvic inlet & outlet
	B		♦ Describe sacrotuberous&sacrospinous ligaments ♦ Describe muscles & fascia in lateral wall of pelvis ♦ Describe pelvic diaphragm
8	A		♦ Identify origin & termination and branches of internal iliac artery ♦ Relation of pelvic organs to each other's
	B		♦ Position &curvatures & peritoneal covering and relations of rectum ♦ Blood supply of rectum ♦ Differentiate between internal & external anal sphincter ♦ Differentiate between upper and lower parts of anal canal
9	A		♦ Describe urinary bladder & its relations, peritoneal covering and blood supply Describe pelvic part of ureter Describe prostate & vas deference and seminal vesicle
	B		♦ Describe parts of uterine tube Describe position & parts & relations of uterus ♦ Describe ligaments & peritoneal covering of uterus ♦ Describe position & ligaments and blood supply of ovary

Intended Learning Outcomes (ILOs):

A: Knowledge and understanding (K):

- **K1: Describe** the basic anatomical structure of the different organs and systems of the human body.
- **K2: Recognize** the surface landmarks of the underlying bones, muscles and tendons, and internal structures (main nerves, vessels and viscera).
- **K3: Enumerate** the different branches of nerves and vessels.
- **K4: Recall** the actions of the different muscles.
- **K5: Distinguish** the movements of different joints and the muscles responsible for each movement.
- **K6: Outline** the major clinical applications of anatomical facts.
- **K7: Predict** clinical signs of nerve injuries based on their normal anatomy.
- **K8: Explain** the different stages of human development and growth.
- **K9: Explain** the anatomical facts based on their development.
- **K10: Discuss** errors in development of the different systems
- **K11: Explain** the causes of the congenital anomalies.

B: Intellectual skills (I):

- **I1: Integrate** the anatomical facts while examining the living subject in order to reach a proper diagnosis.
- **I2: Relate** the surface markings of different structures determine the position or course of internal structures.
- **I3: Assemble** the different internal structures in cadavers and preserved specimens.
- **I4: Design** an anatomical model for different organs.

- **I5: Draw diagrams** for different organs, vessels and nerves.
- **I6: Interpret** the normal anatomical structures on radiographs, ultrasonography, C.T. scan and nuclear magnetic resonance images.
- **I7: Correlate** the anatomical knowledge with clinical signs seen in cases of nerve injuries.
- **I8: Correlate** his knowledge in embryology with clinical findings caused by errors in development.

C: Professional and practical skills (P):

- **P1: Make** critical judgments based on a sound knowledge base
- **P2: Recognize** the scope and limits of their role as students and the necessity to collaborate with others.
- **P3: Maintain** a professional image concerning behavior, dress and speech.
- **P4: Manage** the time in their study and future career.

D: General and transferable skills (T):

- **T1:** responsible towards **working as a team**.
- **T2: Use** internet and learn searching skills.

Attendance

Date	Section	Signature

ANATOMY LOG BOOK

Date	Section	Signature

ANATOMY LOG BOOK

Date	Section	Signature

ANATOMY LOG BOOK

Date	Section	Signature