

## **Course specifications for 1<sup>st</sup> year**

**University: Kafrelsheikh**

**Faculty: Medicine**

**Department: Human Anatomy and Embryology**

### **1- Administrative Information**

- **Course title: human anatomy and embryology 1.....**
- **Code: TMED.01:01**
- **Department offering the course: human anatomy and embryology dep.**
- **Program (s) on which this course is given: M.B.B.Ch**
- **Departments offering the program: departments in the faculty of medicine.**  
**Kafrelsheikh university**
- **Academic year/ Level : ...1<sup>st</sup> year.... of M.B.B.Ch**
- **Semester in which the course is given:1<sup>st</sup> and 2<sup>nd</sup> semesters**
- **date of specifications /revision:1September 2017**
- **date of approval by departmental/faculty council : Department council 1 September 2017- Faculty council: 18 September 2017**
- **Credit / taught hours:**  
**Lectures: 120 hrs      Practical: 120 hrs      Total: 240 hrs**

### **2 – Overall Course Aims**

- **To acquire a core body of scientific knowledge concerning the normal structure of the human body at the level of the anatomical regions (General Anatomy, Thorax,**

Abdomen, Pelvis & upper limb) and organs and the normal growth and development relevant to anatomical topics (General embryology in the 1<sup>st</sup> year).

- To develop appropriate ethical and professional education necessary for dealing with cadavers
- To help students to correlate anatomical facts with their clinical applications (Applied anatomy & Problem Solving)

### **3– Intended learning outcomes (ILOs):**

#### **A- Knowledge and understanding:**

**a1 Define the normal structure of the body at the level of the anatomical regions (General Anatomy, Thorax, Abdomen, Pelvis & upper limb), and discuss the relations of different organs and structures.**

**a2 Explain the normal growth and development of the human body throughout different life stages, including sex variations and congenital malformations (General embryology in the 1<sup>st</sup> year).**

#### **B- Intellectual skills**

**B1. Demonstrate insight for continued self assessment of their current medical practice aiming to update and improve it**

**B2. Demonstrate insight into research and scientific methods through:**

**A- Formulation of research questions that is pertinent to medicine.**

- B- Recognition of the importance of precision in collecting, analyzing and interpreting medical data.
- C- Involvement in simple group search.

#### **C- Professional and practical skills**

**C1. Perform cadaveric examination to identify different parts and organs of the body**

**C2. Correlate clinical data with surface anatomy and different anatomical structures (applied anatomy and problem solving)**

#### **D- General transferable skills (attitude and communication skills)**

**D1. Know when and how to ask for senior consultation.**

**D2. Consider the resources of biomedical information including the available electronic facilities to update his/her knowledge.**

**D3. Adopt ethical behavior expected of doctors towards cadavers**

**D4. Maintain a professional image in manner, dress, speech and interpersonal relationships that is consistent with the accepted contemporary medical profession standards**

**D5. Adopt the principles of lifelong learning**

#### **4- Topics (Contents of the course)**

<b>Topic</b>	<b>No. of hrs.</b>

	Lectures	Practical/Small groups	Total
<b>Introduction</b>			
<b>General anatomy</b>	<b>10</b>	<b>8</b>	<b>18</b>
<b>Thorax</b>	<b>24</b>	<b>24</b>	<b>48</b>
<b>Abdomen and pelvis</b>	<b>48</b>	<b>62</b>	<b>110</b>
<b>Upper limb</b>	<b>24</b>	<b>26</b>	<b>50</b>
<b>General embryology</b>	<b>14</b>		<b>14</b>
<b>Total</b>	<b>120</b>	<b>120</b>	<b>240</b>

## 5-Teaching and learning methods

**5.1 Lectures for acquisition of knowledge: 4 hours/week.**

**5.2 Practical classes: 4 hours/ week; including practical dissection, demonstration in the dissecting rooms, museum jars, and plastic models.**

**5.3 Tutorials: 4 hours/ topic including X ray films , problem solving, analyzing and interpreting medical data(Surface& Applied anatomy) .**

**5.4 Simple group research & data show presentation.**

## 6-Student Assessment :

### **a) Methods used**

**1-written examination to assess knowledge and understanding , intellectual skills and professional and practical skills.**

**2- MCQ examination to assess intellectual skills**

**3-Oral examination to assess knowledge and understanding, intellectual skills, and transferable skills**

**4-Practical examination to assess knowledge and understanding, intellectual skills, professional and practical skills and transferable skills**

### **b) Assessment schedule التوقيت**

Assessment	Week
<b>1 formative only assessment</b>	
<b>2 mid-year examination</b>	<b>2<sup>nd</sup> week of January</b>
<b>3 group research work assessment</b>	<b>1<sup>st</sup> week of March</b>
<b>4 final year examination</b>	<b>3<sup>rd</sup> week of May</b>

### **c) Weighing of assessments (توزيع الدرجات)**

Midyear examination	15% ( 37.5 marks)
Final year examination	50% (125 marks)

Oral examination	10% (25 marks)
Practical/laboratory work	20% (50 marks)
Periodical examinations & Semester work	3% (7.5 marks)
Other types of assessment(research work)	2% (5 marks)
Total	100% (250 marks)

**d) Attendance Criteria:**

**1. Practical attendance: The minimal acceptable attendance is 75%**

**2. Practical books: To be completed during the practical classes of the academic year**

**e) Grading system:**

Examination	Topic	Description	Marks
Mid-year Examinations	Written (1-hour)	Short essay questions	37.5 marks
Semester work			12.5marks
Final Examination	Written (3-hours)	essay questions in Thorax, Abdomen, Pelvis,	125 marks

	Upper limb & embryology including surface and applied anatomy& problem solving questions& MCQ questions
	Practical exam 25 spots presented by data show 50 marks (25 minutes.) 1 minute for each
	Oral exam One set 25 marks (10 minutes)
Total	250 marks

## 7- List of references

### 7.1 Course notes

Hand outs of lectures (either soft or hard copies)

### 7.2 Text book

Human anatomy series produced by Prof.Dr. Manal Elbermawy :

- General Anatomy
- Thorax
- Abdomen
- Pelvis

- Upper limb
- General Embryology
- Osteology I
- Practical Log Book I

### 7.3 Recommended books

**Gray's Anatomy**

**Clinical anatomy for medical students (Richard S. Snell)**

**Cunningham's manual of practical anatomy**

**Atlas of anatomy (Nutter, Grant....etc)**

### 7.4 Periodicals and web sites

**Journal of anatomy**

**Journal of clinical anatomy**

**Developmental Dynamics**

[www.innerbody.com](http://www.innerbody.com)

[www.instantanatomy.net](http://www.instantanatomy.net)

## 8-facilities for teaching and learning resources

**Dissecting rooms ( cadavers, bones)**

**Museum (jar specimens, plastic models)**

**Library (delivering text books and computers for achieving anatomy web sites)**

**CD library (from the Simple group researches of students)**

#### Course coordinator

Name: Dr. Rasha Abdel Kader & Dr. Mona Abdel Atty. ....Date...1 September 2017

#### Head of department

Name Prof. Dr. Manal El Bermawy .....Date...1September 2017



**Intended learning outcomes of the course ( A)**

Academy /University: Kafrelsheikh

Faculty: Medicine

Department: Anatomy.

The name of course	<b>anatomy 1</b>
Code of course	<b>TMED.01:01</b>

Topics of the course	Week Study	Knowledge & Understanding	Intellectual Skills	Practical Skills	General transferable skills
General Anatomy	First week	√			√
General Anatomy	Second week	√			√
Upper limb (Pectoral	Third week	√		√	√

region- Axilla)					
Axilla (cont.) & Back- Shoulder region, Shoulder Girdle& Shoulder Joint	Fourth week	√		√	√
Arm& Cubital Fossa- Elbow joint& Radioulnar Joints& Muscles of the forearm (Front	Fifth week	√		√	√
Muscles of the forearm (Back)- Region of wrist& Arteries of the forearm	Sixth week	√		√	√
Nerves of the forearm &	Seventh week	√		√	√

Hand (Fascia)			√		
The Hand (cont.)& Joints (cont.) -Tutorials  Surface, Applied, Radiological anatomy- Problem Solving	Eighth week	√		√	√
Thorax (Thoracic cage)	Ninth week	√		√	√
Thoracic muscles- Thoracic nerves & vessels	Tenth week	√		√	√
Pleura& Lungs- Superior mediastinum	Eleventh week	√		√	√
Pericardium & Heart	Twelfth week	√		√	√
Posterior	Thirteenth week	√		√	√

mediastinum					
Abdomen (Anterior abdominal wall)- Inguinal ligament& Inguinal canal& spermatic cord	Fourteenth week	√		√	√
Peritoneum- General embryology (Germ cells)	Fifteenth week	√	√	√	√
Peritoneum (cont.)- Stomach & Duodenum- General	Sixteenth week	√		√	√

embryology (reproductive cycle)					
Intestine (cont.)- General embryology (Fertilization)	Seventeenth week	√		√	√
Liver and biliary apparatus- General embryology (Cleavage& implantation)	Eighteenth week	√		√	√
Pancreas& Spleen- Blood vessels of the gut- General embryology (Bilaminar embryo)	Nineteenth week	√		√	√
Posterior abdominal	Twentieth week	√		√	√

ms & Kidneys & ureters - General embryology (trilaminar embryo)			√		
Post. Abdominal arteries, nerves and veins- General embryology (Notochord & neural tube formation)	Twentieth one week	√		√	√
Pelvis (Walls of the pelvis)- General embryology (Intra embryonic	Twentieth two week	√		√	√

mesoderm)					
Blood vessels & nerves of the pelvis- Pelvic urinary organs	Twentieth three week	√		√	√
Pelvic urinary organs (cont.)- Male genital organs	Twentieth four week	√		√	√
Female genital organs- Rectum & anal canal & Perineum	Twentieth five week	√		√	√
Perineum (cont.)- General embryology	Twentieth six week	√	√	√	√

(Folding-Foetal membranes)					
General embryology (Placenta- Multiple pregnancy- human birth defects)	Twentieth seven week	√	√		√
Revision	Twentieth eight week	√		√	√
Revision	Twentieth nine week	√		√	√
Revision	Thirtieth week	√		√	√

Course coordinator: Rasha Abdel Kader & Dr. Mona Abdel Atty

Head of the department: Prof. Dr. Manal ElBermawy



## **Course specifications II 2<sup>nd</sup> year**

**University: Kafrelsheikh**

**Faculty: Medicine**

**Department: Human Anatomy and Embryology**

### **1- Administrative Information**

- **Course title: human anatomy and embryology II.....**
- **Code: TMED.02:01**
- **Department offering the course: anatomy dep.**
- **Program (s) on which this course is given: M.B.B.Ch**
- **Departments offering the program: departments in the faculty of medicine.**  
**Kafrelsheikh university**
- **Academic year/ Level : ...2<sup>nd</sup> year.... of M.B.B.Ch**
- **Semester in which the course is given:1<sup>st</sup> and 2<sup>nd</sup> semesters**
- **Credit / taught hours:**

**Lectures: 120 hrs      Practical: 120 hrs      Total: 240 hrs**

### **2 – Overall Course Aims**

- **To acquire a core body of scientific knowledge concerning the normal structure of the human body at the level of the anatomical regions (Head, Neck, Neuroanatomy& Lower**

limb in the 2<sup>nd</sup> year) and organs the normal growth and development relevant to anatomical topics (Special embryology in the 2<sup>nd</sup> year).

- To provide appropriate ethical and professional education necessary for dealing with cadavers
- To help students to correlate anatomical facts with their clinical applications (Applied anatomy& Problem Solving).

### **3– Intended learning outcomes (ILOs):**

#### **A- knowledge and understanding:**

- a1 define the normal structure of the body as an intact organism at the level of the anatomical regions (Head, Neck, Neuroanatomy& Lower limb in the 2<sup>nd</sup> year) and of each of its major systems
- a2 explain the normal growth and development of the human body (Special embryology in the 2<sup>nd</sup> year) and mind throughout different life stages, including clinically relevant variations.
- a3. Describe clearly the altered development; growth and structure of the body occur as a result of abnormal embryogenesis.

#### **B- Intellectual skills**

**B1. Demonstrate insight for continued self assessment of their current medical practice aiming to update and improve it**

**B2. Demonstrate insight into research and scientific methods through:**

- D- **Formulation of research questions that is pertinent to medicine.**
- E- **Recognition of the importance of precision in collecting, analyzing and interpreting medical data.**
- F- **Involvement in simple group research.**

#### **C- Professional and practical skills**

**C1. Perform cadaveric examination to identify different parts and organs of the body**

**C2. Correlate clinical data with surface anatomy and different anatomical structures  
(applied anatomy and problem solving)**

#### **D- General transferable skills**

**D1. Know when and how to ask for senior consultation.**

**D2. Consider the resources of biomedical information including the available electronic facilities to update his/her knowledge.**

**D3. Adopt ethical behavior expected of doctors towards cadavers**

**D4. Maintain a professional image in manner, dress, speech and interpersonal relationships that is consistent with the accepted contemporary medical profession standards**

**D5. Adopt the principles of lifelong learning**

#### **4- Topics (Contents of the course)**

Topic	No. of hours	Lecture	Tutorial/Practical
<b>Head &amp; Neck</b>	<b>108</b>	<b>48</b>	<b>60</b>
<b>Neuroanatomy</b>	<b>54</b>	<b>24</b>	<b>30</b>
<b>Lower limb</b>	<b>54</b>	<b>24</b>	<b>30</b>
<b>Special Embryology</b>	<b>24</b>	<b>24</b>	<b>~~</b>
<b>Total</b>	<b>240 hrs.</b>	<b>120 hrs</b>	<b>120 hrs</b>

## **5-Teaching and learning methods**

**5.1 Lectures for acquisition of knowledge: 4 hours/week.**

**5.2 Practical classes: 4 hours/ week; including practical dissection, demonstration in the dissecting rooms, museum jars, and plastic models.**

**5.3 Tutorials: 4 hours/ topic including X ray films , problem solving, analyzing and interpreting medical data (Surface& Applied anatomy) .**

**5.4 Simple group research & data show presentation as a power point lecture.**

## **6-Student Assessment :**

### **a) Methods used**

**1written examination to assess knowledge and understanding , intellectual skills and professional and practical skills.**

**2 MCQ examinations to assess intellectual skills**

**3 oral examination to assess knowledge and understanding, intellectual skills, and transferable skills**

**4 practical examination to assess knowledge and understanding, intellectual skills, professional and practical skills and transferable skills**

**b) Assessment schedule** التوقيت

Assessment	Week
<b>1 formative only assessment</b>	<b>3<sup>rd</sup> week of December</b>
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**c- Weighing of assessments** (توزيع الدرجات)

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Oral examination	10% (25 marks)
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Total	100% (250 marks)
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**d) Attendance Criteria:**

**1. Practical attendance: The minimal acceptable attendance is 75%**

**2. Practical books: To be completed during the practical classes of the academic year**

**e) Grading system:**

Examination	Topic	Description	Marks
First assessment	• MCQ Exams and Practical log book		Total 7.5 marks
Mid-year Examinations	Written (1-hour)	Short essay questions	37.5 marks
• Data show presentations		Groups of 10 students each do a search on a certain topic to be completed during the practical class	5 marks
Final Examination	Written (3-hours)	essay questions in Head, Neck, Neuroanatomy,	125 marks

	Lower limb & special embryology including surface and applied anatomy & one problem solving question	
	Practical exam 25 fresh specimens, including 50 marks (25 minutes.) bones, soft tissue, organs and X-ray 1 minute for each	
	Oral exam (10 minutes)	25 marks
Total		250 marks

## 7- List of references

### 7.1 Course notes

Hand outs of lectures (either soft or hard copies)

### 7.2 Text book

Human anatomy series produced by prof. Dr. Manal Elbermawy:

- Head& Neck I
- Head& Neck II
- Neuroanatomy
- Lower limb

- **Special Embryology**
- **Osteology II**
- **Practical Log Book II**

### **7.3 Recommended books**

**Gray's Anatomy**

**Clinical anatomy for medical students (Richard S. Snell)**

**Cunningham's manual of practical anatomy**

**Atlas of anatomy (Nutter, Grant....etc)**

### **7.4 Periodicals and web sites**

**Journal of anatomy**

**Journal of clinical anatomy**

**Developmental Dynamics**

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### **8-facilities for teaching and learning resources**

**Dissecting rooms (cadavers, bones)**

**Museum (jar specimens, plastic models)**

**Library (delivering text books and computers for achieving anatomy web sites)**

**CD library (from the Simple group researches of students)**

- **Course coordinator**

Name: Dr. Rasha Abdel Kader & **Dr Mona Abdel Atty**

....Date **1 sept.2017**

**Head of department**

- Name Prof. Dr. Manal Elbermawy

.....Date **1 sept.2017**



### Intended learning outcomes of the course ( A)

<input checked="" type="checkbox"/> The name of course	<b>anatomy II</b>
Code of course	<b>TMED.02:01</b>

/ University: Kafrelsheikh

Academy Faculty: Medicine.

Department:

Anatomy.

Topics of the course	Week Study	Knowledge & Understanding	Practical Skills	Intellectual Skills	General transferable skills
Skull (Norma verticalis, frontalis& occipitalis- Norma lateralis& basalis)	First week	√	√		√
• Head (Scalp& Face)	Second week	√	√		√

Parotid gland& Muscles of mastication- Infratemporal fossa	Third week	√	√		√
Infratemporal Fossa (con.)- Cranial cavity	Fourth week	√	√		√
Cranial cavity (cont.)- Orbit- Special embryology (Urinary system- Tutorials Surface, Applied, Radiological anatomy- (Problem Solving)	Fifth week	√	√	√	√
Neck (Fascia)& Post. Triangle- Ant. triangle of the neck- Special embryology (Urinary system cont.)	Sixth week	√	√		√
Submandibular Region - Special embryology (Genital system)	Seventh week	√	√		√

Main vessels, nerves& viscera of the neck- Special embryology (Genital system cont.)	Eighth week	√	√		√
Root & back of the neck- Mouth cavity& palate - Special embryology (Genital system cont.) -Tutorials Surface, Applied, Radiological anatomy- (Problem Solving)	Ninth week	√	√	√	√
Pharynx- Nasal cavity- Special embryology_(CVS)	Tenth week	√	√		√
Larynx- Ear& Eye- Special embryology (CVS cont.) -Tutorials Surface, Applied, Radiological	Eleventh week	√	√		√

anatomy- (Problem Solving)				√	
Neuroanatomy (Spinal cord external features& Ascending tracts:) - Special embryology (CVS cont.)	Twelfth week	√	√		√
Spinal cord (descending tracts& blood supply & meninges) - Special embryology (CVS cont.)	Thirteenth week	√	√		√
Brain stem (External features)- Cranial nerves- Special embryology (Digestive system)	Fourteenth week	√	√		√
Cranial nerves (cont.)- Parasympathetic system- Special embryology (Digestive system cont.)	Fifteenth week	√	√		√

Cerebellum& fourth ventricle- Special embryology (Digestive system cont.)	Sixteenth week	√	√		√
Diencephalon	Seventeenth week	√	√		√
Third ventricle- cerebral hemispheres	Eighteenth week	√	√		√
Limbic system& Basal Ganglia& White matter & Lateral Ventricle- Meninges- CSF- Blood supply of brain	Nineteenth week	√	√		√
Lower limb (Front of thigh, Fascia of L.L - Special embryology (Respiratory System & Pharyngeal arches)	Twentieth week	√	√ √		√ √

Front of thigh (Cont.)- Medial side of thigh- Gluteal Region	Twentieth one week	√			
Hip Joint & Back of the thigh - Special embryology (Tongue & Face & Palate)	Twentieth two week	√	√		√
Popliteal fossa & Knee joint- Front of leg & Dorsum of foot	Twentieth three week	√	√		√
Lateral compartment of leg- Back of leg- Special embryology (Skeletal system)	Twentieth four week	√	√		√
Back of leg (Cont.) & Sole of foot- Ankle Joint & Ligaments & Arches of foot	Twentieth five week	√	√		√

Special embryology (Muscles- Endocrine glands - CNS)	Twentieth six week	√			√
Tutorials Surface, Applied, Radiological anatomy	Twentieth seven week	√			√
Problem Solving	Twentieth eight week	√	√	√	√
Revision	Twentieth nine week	√	√		√
Revision	Thirtieth week	√	√		√

Course coordinator: Dr. Rasha Abdel Kader & Dr. Mona Abdel Atty

Head of the department: Manal

El-Bermawy

