



Benha University.
Faculty of Medicine.
Department of Anatomy & Embryology

Course Specifications

Course title: Human anatomy and Embryology

Code: MED 0701

Academic Year (2010 – 2011)

- **Department offering the course:** Human Anatomy and Embryology Department
- **Academic year of **M.B. & B.Ch.** program:** second Year(2010-2011)
- **Date of specification approval:**
 - **Department council no.** 101 date: 20/7/2010
 - **faculty council no.** date:

A) Basic Information:

- **Allocated marks:** 250 marks.
- **Course duration:** 30 weeks of teaching.
- **Teaching hours:** 10 hours / week = 300 total teaching hours.

	Hours / week	Total hours
1- Lectures	4hours/week for 30 weeks	120 hrs

2- Small group teaching / tutorials	2 hrs/week for 30 weeks	60 hrs
3- Practical	4hours/week for 30weeks	120 hrs
Total	30 weeks	300 hrs

B) Professional Information:

1- Overall Aim of the Course:

- 1.1. To Provide a scientific knowledge of the normal structure of the human body at the level of organ and organ system ,with the study of the normal growth and development relevant to the anatomical topics
- 1.2. To provide appropriate ethical and professional education necessary for dealing with cadavers.
- 1.3. To correlate anatomical facts with their clinical applications.

2- Intended Learning Outcomes (ILOs):

2.1. Knowledge and understanding:

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

- 2.1.1. Define different general anatomical and embryological terminology.
- 2.1.2 Describe the basic principles of structure of different tissues ,organs and systems of the human body.
- 2.1.3 Describe the surface landmarks of the underlying bones ,muscles ,tendons and internal structures(nerves, vessels & viscera).
- 2.1.4 Point out the different stages of the human :development and growth
- 2.1.5 Outlines major clinical applications of anatomical facts.
- 2.1.6 Describe different parts of human body and regional development and growth of each

2.2. Practical and Clinical Skills

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

- 2.2.1. *Maintain honesty and integrity in all interactions with teachers, colleagues, patients and others with whom physicians must interact in their professional lives.*
- 2.2.2. *Value the ethics and respect to all individuals inside and outside the dissecting room and pay a good deal of respect to the cadavers.*
- 2.2.3. Identify different parts of human body by X ray.
- 2.2.4. *Recognize the scope and limits of their role as a student as well as the necessity to seek and apply collaboration with other workers.*
- 2.2.5. *Be responsible towards work.*
- 2.2.6. *Maintain a professional image concerning behavior, dress and speech*
- 2.2.7. Interpret some clinical findings in relation to developmental basis.
- 2.2.8. Demonstrate the different surface markings and determine the position or course of the internal structures.

2.3. Professional Attitude and Behavioral skills:

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

- 2.3.1. Demonstrate Respect for patients' rights and involve them and /or their caretakers in management decisions.
- 2.3.2. Demonstrate respect to all patients irrespective of their socioeconomic levels, culture or religious beliefs using appropriate language to establish a good patient-physician relationship.
- 2.3.3. Respect the role and the contributions of other health care professionals regardless their degrees or rank (top management, subordinate or colleague).
- 2.3.4. Reflect critically on their own performance and that of others, to recognize personal limitations regarding skills and knowledge to refer patients to appropriate health facility at the appropriate stage.

2.4. Communication skills:

By the end of the program the graduate will be able to:

- 2.4.1. Communicate clearly, sensitively and effectively with patients and their relatives, and colleagues from a variety of health and social care professions.
- 2.4.2. Establish good relations with other health care professionals regardless their degrees or rank (top management, subordinate or colleague).

2.4.3. Communicate effectively with individuals regardless of their social, cultural, ethnic backgrounds, or their disabilities.

2.4.4. Cope up with difficult situations as breaking news.

2.4.5. Respect patients and their relatives, superiors, colleagues and all members of the health profession.

2.5. Intellectual Skills:

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

2.5.1. . Apply the anatomical facts while examining the living subject in order to reach a proper diagnosis

2.5.2. Interpret the normal anatomical structures on x ray

2.5.3. Identify the different surface markings and determine the position or course of the internal structures.

2.5.4. Identify the different internal structures in cadavers and specimen's faculty of Medicine, Benha University

2.6. General and transferable Skills:

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

2.6.1. Recognize the legal and moral aspects of medical practice.

2.6.2 *Present data in an organized and informative manner.*

2.6.3 *Demonstrate appropriate professional attitudes and behaviors in different practice situations.*

2.6.4 Establish life-long self-learning required for continuous professional development.

2.6.5 Use the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.

2.6.6 Retrieve, manage, and manipulate information by all means, including electronic means.

2.6.7 Present information clearly in written, electronic and oral forms.

2.6.8 Establish effective interpersonal relationship to Communicate ideas and arguments.

3- Course contents:

Subject	Lectures (hrs)	Tutorial / Small group discussion (hrs)	Practical (hrs)	Total (hrs)	% of Total
1-head (landmarks,scalp,face, parotid gland, cavernus sinus, pituitary gland, lacrimal apparatus, orbit , mandibular region, styloid apparatus, tempero mandibular joint,-etc.)	24	11	22	57	19%
2- neck (land marks, dermatomes, deep cervical fascia, neck triangle, suboccipital triangle, thyroid gland, suprahyoid region, sub mandibular and sublingual glands, root of neck, mouth cavity, pharynx, larynx, nose, ear. etc.)	24	11	22	57	19%
3-neuroanatomy (cranial meninges, csf circulation, base of brain, spinal cord, brain stem, forebrain, cerebellum, diencephalon, blood supply of brain, internal structure, pyramidal tract, extra-pyramidal tract, sensory pathway).	30	16	32	78	26%
4- lower limb (land marks, front of thigh, femoral traingle, adductor canal, glutial region, piriformis and its relations, vessels and nerves, hip joint, leg, great saphenous vein, front of leg, back of leg, sole, arches of the foot, knee joint,ankle joint, tibufibular joint and nerve	42	8	17	67	32%

injury)					
5- systematic embryology (foregut, midgut, hindgut, body cavities, diaphragm, mesenteries and abdominal cavity, kidney, urinary bladder, testis, ovary, genital ducts in male & female, extragenitalia in male & female and their anomalies, heart, arteries, veins, fetal circulation and its changes at birth, skeleton, nervous system, muscles, skin, sense organs, branchial apparatus, larynx, trachea, bronchi, lungs, and their anomalies, adrenal gland, pituitary gland, & pharyngeal part of endocrines)	24	xx	xx	24	8%
TOTAL	120	60	120	300	100%

4- Teaching and learning methods:

METHODS USED:

1. Lectures.
2. Small group discussions: Museum specimens, demonstration (x ray films and data show), models.
3. Tutorials
4. Practical classes

TEACHING PLAIN:

Lectures: 120 lectures

Tutorials: 60 tutorials

Practical classes: 120 practical classes

Time plain:

Item	Time schedule	Teaching hours	Total hours
Lectures	<u>2</u> times/week; Two hour each/30weeks	120 hours	40%
Practical classes	<u>2</u> times/week; two hour each/30 week	120 hours	40%
Tutorials	<u>2</u> times/week; one hour each/30weeks	60 hours	20%
Total		300 hours	100%

5- Students Assessment methods:**5-A) ATTENDANCE CRITERIA:**

1. Practical attendance
2. Practical books

5-B) Assessment TOOLS:

Tool	Purpose (ILOs)
Written examination	To assess knowledge acquisition, including MCQs
Oral examination	To assess understanding and stability of knowledge given, attitude and presentation.
Practical examination	To assess practical skills.

5-C) TIME SCHEDULE:

Exam	Week
1- Assessment 1	Week 16
2- Assessment 2	Week 14
3- Assessment 3	Week 25
4- Final exam	At end of year (week 30)

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
1- First half of the academic year (P.C.T in head and neck)	15	6%
2- Mid-year exam (P.C.T in Embryology)	15	6%
3- Second half of the academic year (P.C.T in Lower limb&neuroanatomy)	10	4%
3- Final exam: a- Written b- Practical c- Oral	125 60 15	50% 24% 6%
4- Assignments & other activities	10	4%
Total	250	100%

FORMATIVE ASSESSMENT:

- Student knows his marks after the Formative exams.

5-E) Examination description:

Examination	Description
1- First half of the academic year	Quiz (MCQs),short questions
2- Mid-year	Objectively structured questions& practical exam
3- Second half	Objectively structured questions& practical exam
3- Final exam: a- Written b- Practical c- Oral	<ul style="list-style-type: none">• select (MCQs) & Supply (Short essay) & cases• Do, identify• Two session
4- Assignments & other activities	. Assignments, projects, practical books

6- List of references:

6.1- Basic materials:

Department books:

- 1- Anatomy Department, Benha Faculty of Medicine
- 2.- Practical books

6.2- Essential books (text books):

- Gray's Anatomy (2004): The Anatomical Basis of Medicine and Surgery

6.3- Recommended books:

Cunningham's Manual of Practical Anatomy (2000)

Couper Brash: anatomy

6.4- Periodicals, Web sites, etc:

- <http://www.anatomy.com>
- <http://www.medscape.com>.
- <http://www.pubmed.com>.
- <http://sciencedirect.com>.

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

- Faculty lectures halls: 2
- Department lectures halls: 4
- Museum hall: 6TH floor
- Department lab.
- Audio-visual teaching equipments (Computer,data show,)
- Models and mannequins
- Data show, scientific pictures archives.
- Radiology collections & archives.

Course coordinator: : Prof. Saadia Ahmed Shalaby

Head of Department: Prof. Saadia Ahmed Shalaby

Date: 2010- 2011

