



إعتماد توصيف مقررات برنامج الدكتوراه فى التشريح الأدمى وعلم

الأجنه

نقر نحن الموقعون على هذا أدناه أن توصيف وثيقة البرنامج التعليمى لدرجة الدكتوراه فى التشريح الأدمى وعلم الأجنه والمقررات الدراسية المكونة له قد تم وضعها بمعرفة الأقسام المعنية

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٦.	التشريح الأدمى وعلم الأجنه	د. / نصار ايوب عبد اللطيف		د. / عصام صلاح كامل	

عميد الكلية

وكيل الكلية للدراسات العليا



Peer Revision

Reviewers	University	Date of Revision
- Prof. Dawlat Salem	Cairo	10/12/2011
- Prof. Ahmad K. Mansur	Mansura	28/11/2011

Specification of medical Doctorate Degree of Human Anatomy and Embryology

Sohag University

Faculty of medicine

A. Basic Information

1. Program title: medical Doctorate Degree of Human anatomy and Embryology
2. Program type: single
3. Faculty: Faculty of Medicine
4. Department: Human Anatomy and Embryology
5. Coordinator: Dr. Salwa Mohammed Ouies
6. External evaluator: Pr. Dr. Omer Gaber
7. Last date of program specifications approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013.

B. Professional Information

1. Program aims

The aim of the program is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of anatomy and embryology and necessary for further training and practice in the field of anatomy and embryology through providing

1. Recent scientific knowledge and skills essential for the mastery of practice of human anatomy and embryology according to the international standards.
2. Skills necessary for proper for applying anatomy and embryology for detecting different problems and diseases.
3. Ethical principles related to the practice in this speciality
4. Active participation in the community needs assessment and problems identification.
5. Maintenance of learning abilities necessary for continuous medical education
6. Updating research interest and abilities.

2. Attributes of the post graduate:

1. Efficient in carrying out the basics and methodologies of scientific research in Anatomy and Embryology.
2. The continuous working to add new knowledge in his field.
3. Applying the analytical course and critical appraisal of the knowledge in his specialty and related fields.
4. Merging the specialized anatomical knowledge with the other related knowledge with conclusion and developing the relationships in between them.
5. Showing a deep awareness with the ongoing problems, theories, and advanced sciences in his specialty.
6. Determination of the professional problems and creating solutions for them.
7. Efficient in carrying out the professional skills in his specialty.
8. Using advanced suitable technologies which serves his practice.
9. Efficient communication and leadership of team work in his specialty.
10. Decision making through the available information.
11. Using the available resources efficiently and working to find new resources.

12. Awareness with his role in the development of the society and preserve environment.
13. Behaving in a way which reflects his credibility, accountability, and responsibility.
14. Keeping continuous self development and transfer his experiences and knowledge to others.

3. Intended learning outcomes (ILOs)

a) Knowledge and Understanding

By the end of the study of doctoral program in Human Anatomy and Embryology the Graduate should be able to know and understand each of:

- a1. Mention the recent advance in the normal structure and function of the
- a2. human body.
- a3. Understand the recent advance in the growth and development of different
- a4. parts the human body.
Describe the recent function of the different systems in relation to their structure.
- a5. List the recent advance in the abnormalities in development of different parts of human body.
- a6. Enumerate the recent knowledge in the applied anatomy of different parts of the human body.
- a7. Mention the Principles, methodologies, tools and ethics of scientific research and the recent advances in biostatistics and computer.
- a8. List the principles and fundamentals of ethics and legal aspects of professional practice in the field of Human Anatomy and Embryology
- a9. Define the principles and fundamentals of quality of professional practice in the field of Human Anatomy and Embryology
- a10. Describe the effect of professional practice on the environment and the methods of environmental development and maintenance.

Optional ILOS:

- a11. Define the principles and abnormalities in the human medical genetics
- a12. Define the difference between different races an abnormalities related to each.
- a13. Gain sufficient knowledge of the histological structure of the different body tissues and organs.
- a14. List the different methods for tissue examination
- a15. List general histological stains.
- a16. Enumerate sufficient knows ledges of tissue preparations for electron microscopy.
- a17. Enumerate sufficient knows ledges of tissue examination by electron microscopy.
- a18. Define the shape and appearance of different body parts in x-ray and other radiological techniques

b) Intellectual skills

By the end of the study of doctoral program in Human Anatomy and Embryology; the Graduate should be able to:

- b1. Interpret data acquired through bones and cadavers to understand the normal function and structure of different parts of the human body.

- b2. Interpret data acquired through normal development to understand the causes of different congenital anomalies of different parts of the human body.
- b3. Select from different tools the one that can help in reaching final solving of the anatomical problems.
- b4. Conduct research studies that add to knowledge.
- b5. Formulate of scientific papers in the area of Human Anatomy and Embryology.
- b6. Assesses risk in professional practices in the field of Human Anatomy and Embryology.
- b7. Plan to improve performance in the field of Human Anatomy and Embryology.
- b8. Identify anatomical and embryological problems and find a solution.
- b9. Has the ability to innovate non-traditional solution to anatomical and embryological problems.
- b10. Manages scientific discussion administration based on scientific evidences and proofs.
- b11. Criticize Critical appraisal of researches related to Human Anatomy and Embryology.

Optional ILOS:

- b12. Interpret data acquired through normal cell division and human genetics to understand the causes of different congenital anomalies of different parts of the human body.
- b13. Understand from the features of the different races the difference between f human beings
- b14. Understand the use of different general histological stains
- b15. Understand the shape of different parts at x-ray.

c) Professional and practical skills

By the end of the study of doctoral program in Human Anatomy and Embryology The Graduate should be able to:

- c1. Master the basic and modern professional skills in the area of Human Anatomy and Embryology.
- c2. Write and evaluate medical reports.
- c3. Evaluate and develop methods and tools existing in the area of Human Anatomy and Embryology.
- c4. Dissect using the technological methods to serve the professional practice.
- c5. Train junior staff through continuous medical education programs.
- c6. Design new methods, tools and ways of professional practice.
- c7. Optional ILOS:
- c8. Master the basic and modern professional skills in using medical genetics.
- c9. Master the basic and professional skills related to the study of human anthropology and related abnormalities.
- c10. Master the basic and modern professional skills in histology and electron Microscope
- c11. Master the basic and modern professional skills in radiological anatomy

d) General and transferable skills

By the end of the study of doctoral program in Human Anatomy and Embryology the Graduate should be able to:

- d1. Present reports in seminars effectively.
- d2. Use appropriate computer program packages.

- d3. Teach others and evaluate their performance.
- d4. Assess himself and identify his personal learning needs.
- d5. Use of different sources for information and knowledge.
- d6. Work coherently and successfully as a part of a team and team's leadership.
- d7. Manage scientific meetings according to the available time.

4. Academic standards

Sohag faculty of medicine adopted the general national academic reference standards (NARS) provided by the national authority for quality assurance and accreditation of education (NAQAAE) for postgraduate programs. This was approved by the faculty council degree No 6854, in its session No.177. Date 18-5-2009. Based on these NARS; Academic References standard (ARS) were suggested for this program. These ARS were approved by faculty council degree No 7528, in its session No.191. Date 15-3-2010. The adoption of NARS and the suggested ARS were approved by University council degree No 587, in its session No.60. Dated 26-12-2011.

5. Curriculum Structure and Contents

5.a- Program duration 7 semesters (3.5 years).

5.b- Program structure

5b.i- No. of hours per week:

Subject	hours /week		
	Lectures	Practical	clinical
<u>First Part:</u>			
Minors :			
Bio Statistics & Computer	2	2	
Research Methodology	2	2	
<u>Optional courses: one of the followings:</u>			
1- Medical genetics	4	-	
2-Principles of anthropology	4	-	
3-Histology and electron microscope	4	-	
4-Radiological anatomy	4	-	
<u>Second Part:</u>			
Human anatomy and Embryology	7	12.5	

code	Item	No	%	
b.i	Total credit hours	Compulsory	82	100
		Elective	0	0
		Optional	8	0
b.iii	credit hours of basic sciences courses	8	8.9	
b.iv	credit hours of courses of social sciences and humanities	0	0	
b.v	credit hours of specialized courses:	59	.65	
b.vi	credit hours of other course			
b.vii	Practical/Field Training	8	8.9%	

b.viii	Program Levels (in credit-hours system):		
	Level 1: 1st part	14	15.6
	Level 2: 2nd Part	53	58.9
	Level 3: Thesis	14	16.7

6. Program Course

3courses are compulsory +2/4 optional courses.

Semester...1.....

1st part

a. Compulsory

Course Title	No. of hours	No. of hours /week			Program ILOs Covered (By No.)
		Lect.	practical.	clinical.	
Bio Statistics & Computer	4	2	2		A6,b1,b2,c6,d2,d4,d5,d7
Research Methodology+	4	2	2		A6,b4,b5,b9, b11,c1,c6, ,d5,d6

c- Optional – 2 required

Course Title	No. of credit hours	No. of credit hours /week			Program ILOs Covered (By No.)
		Lect.	Practical.	Clinical.	
Medical genetics	4h	4	-		a10,b12,c7,d4,d5,d6,d7
Principles of anthropology	4h	4	-		a 11,b13,c8,d4,d5,d6,d7
Histology and electron microscope	4 h	4	-		a12,a13,a14,a15,a16,a17, b14,c9,d4,d5,d6,d7
Radiological anatomy	4h	4	-		a 18,b15,c10,d2,d4,d5

b- Elective – number required

Code No.	Course Title	No. of Units	No. of hours /week			Programme ILOs Covered (By No.)
			Lect.	Lab.	Exer.	

2nd part

a. Compulsory

Course Title	No. of hours	No. of hours /week			Program ILOs Covered (By No.)
		Lect.	practical	clinical	
Human anatomy and Embryology	53h	7	12.5		a1,a2,a3,a4,a5,a7,a8,a9, b1,b2,b3,b6,b7,b8,b9,b10, c1,c2,c3,c4,c5, d1,d3,d4,d5,d6,d7

7. Program Admission Requirements

I- General Requirements.

- Candidate should have either MBBch degree from any Egyptian Faculty of Medicine or Equivalent Degree from Medical Schools abroad approved by the ministry of high Education.

- Candidate should know how to speak & write English well
- Candidate should have computer skills.
- Follow postgraduate bylaw Regulatory rules of Sohag Faculty of Medicine approved by the ministerial decree No. (44), dated 6/1/2010.

II- Specific Requirements

- Master degree in Anatomy and Embryology with at least "Good Rank".

8. Regulations for Progression and Program Completion

Duration of program is 90 credit hours (≥ 7 semesters ≥ 3.5 years), starting from registration till acceptance of the thesis; divided to:

First Part: (15 Credit hours ≥ 6 months ≥ 1 semester):

- Program-related basic science, Research Methodology, Ethics & medical reports, Biostatistics and computer.
- At least six months after registration should pass before the student can ask for examination in the 1st part.
- Two sets of exams: 1st in October — 2nd in April after fulfillment of the credit hours.
- At least 60% of the written exam and 60% of the total oral and practical/clinical is needed to pass in each course.
- For the student to pass the first part exam, a score of at least 60% (Level D) in each course is needed.
- Those who fail in one course need to re-exam it only.
- GPA of ≥ 1.3 is needed to pass this level (semester).

Second Part: (50-60 Credit hours ≥ 24 months = 4 semesters):

- Program related specialized science of Anatomy courses. At least 24 months after passing the 1st part should pass before the student can ask for examination in the 2nd part.
- Fulfillment of the requirements in each course as described in the template and registered in the log book (8 Credit hours; with obtaining $\geq 75\%$ of its mark) is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; the credit hours of the logbook are calculated as following:
 - Each Cr. Hr.= 60 working Hrs.
 - Logbook= 8 Cr. Hr. X 60 working Hrs = 480 Working Hrs.
 - Collection of working Hrs. is as following:

Activity		Hrs
Grand rounds	اجتماع علمي موسع	6
Training courses	دورات تدريبية	12/ day
Conference attendance	حضور مؤتمرات علمية	12/day
	داخلي خارجة	18/day
Thesis discussion	حضور مناقشات رسائل	6
Workshops	حضور ورش عمل	12/day
Journal club	ندوة الدوريات الحديثة	6
Seminars	لقاء علمي موسع	6
Morbidity and Mortality conference	ندوة تحليل المخاطر المرضية أو الوفاة	6
Self education program	برنامج التعليم الذاتي	6

- Two sets of exams: 1st in October - 2nd in April.
- At least 60% of the written exam is needed to be admitted to the oral and practical exams.
- 4 times of oral and practical exams are allowed before the student has to re-attend the written exam.

Third Part (Thesis) (15 Credit hours =24-48 months=4-8 semester):

- Documentation of the subject should not be delayed for > 1.5 years after registration.
- Could start after registration and should be completed, defended and accepted after passing the 2nd part final examination, after passing of at least 24 months after documentation of the subject of the thesis and after publishing of at least one paper from the thesis in a specialized peer-reviewed journal.
- Accepting the thesis is enough to pass this part.

9. Methods of student assessments:

Method of assessment	weight	The assessed ILOs
1-Research assignment		- General transferable skills, intellectual skills
2-Written Exams: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	50%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills
3-OSCE/ OSPE	50%	-Practical skills, intellectual skills
4- Structured Oral Exams		- Knowledge, Intellectual skills, General transferable skills

Assessment schedule:

Part I:

- Biostatistics & Computer: Written Exam (2 hours) + Structured oral Exam+ OSPE
- Research Methodology: Written Exam (2 hours) + structured oral Exam+ OSPE
- First optional course: Written Exam (3 hours) + structured oral Exam
- Second optional course: Written Exam (3 hours) + structured oral Exam

Part II:

- Anatomy: Two Written Exams (3 hours for each) + OSPE + Structured oral Exam.

10. Evaluation of Program Intended Learning Outcomes

Evaluator	Tool	Sample
1- Senior students	Questionnaire	3
2- Alumni	Questionnaire	3
3- Stakeholders (Employers)	Questionnaire	30
4-External Evaluator(s) (External Examiner(s))	Report	1
5- Other		

Course Specification of Applied biostatistics (with computer use) For MD of Human Anatomy & Embryology

Sohag University

Faculty of Medicine

1. Program on which the course is given: MD. Human Anatomy & Embryology.
2. Minor or major element of the program: minor.
3. Department offering the program: Human Anatomy & Embryology.
4. Department offering the course: Community Medicine Dep.
5. Academic year: Doctoral Degree 1st part.
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic Information

Title: Course Specification of Applied biostatistics (with computer use) For MD of Human Anatomy & Embryology.

Code: COM-0512-300

Title	lecture	practical	total	credit
Applied biostatistics	30	30	60	3

B. Professional Information

1. Overall Aims of Course

To use precisely computer programs and Applied biostatistics

2. Intended Learning Outcomes of Courses (ILOs)

a) Knowledge and understanding:

By the end of the course, the student is expected to be able to:

- a1. Enumerate different programs of analysis of data and statistical packages
- a2. Define the recent advances of sources of data and methods of collection.
- a3. Summarize data, construct tables and graphs
- a4. Calculate measures of central tendency and measures of dispersion
- a5. Describe the normal curves and its uses
- a6. Illustrate selected tests of significance and the inferences obtained from such tests
- a7. Illustrate selected tests of significance for parametric and non parametric inferences.
- a8. Identify factor analysis and discrimination analysis

b) Intellectual Skills

By the end of the course, the student is expected to be allowed to:

- b1. Understand how to collect and verify data from different sources

b2. Interpret data to diagnose prevalent problems related to the field of anatomy

c) Professional and Practical Skills:

By the end of the course, the student is expected to practice the following:

c1. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent problems related to the field of anatomy

d) General and Transferable Skills:

By the end of the course, the student is expected to be able to:

d1. Use appropriate computer program packages.

d2. Use of different sources for information and knowledge about biostatistics.

3. Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
Recent advances in collection, analysis and interpretation of data	6	3	3
-Details of Tests of significance: Proportion test	6	3	3
Chi-square test	6	3	3
Student T test	6	3	3
Paired T test	6	3	3
-Correlation	4	2	2
-Regression	6	3	3
-ANOVA test	4	2	2
-Discrimination analysis	6	3	3
Factor analysis	4	2	2
- parametric and non parametric tests	6	3	3
Total	60	30	30
Total credit hour	3	2	1

4. Teaching and Learning Methods

4.1- Lectures

4.2- Practical sessions

4.3- Computer search assignments

4.4- Computer application

5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4 Computer search assignment	-General transferable skills, intellectual skills

Assessment Schedule

Assessment 1	Final written exam	Week: 24
Assessment 2	Final Structured Oral Exam	Week: 24
Assessment 3	Attendance and absenteeism throughout the course	
Assessment 4	Computer search assignment performance throughout the course	

Weighting of Assessments

Final-term written examination	50	%
Final Structured Oral Exam	50	%
Total	100	%

Formative only assessments: attendance and absenteeism and Computer search assignments performance.

6. List of References

6.1-Course Notes

Lectures notes prepared by the staff members in the department

6.2- Essential Books (Text Books)

1. Maxy-Rosenau Public health and preventive medicine, Prentice – Hall International Inc.

6.3- Recommended Books

1. Dimensions of Community Health, Boston Burr Ridge Dubuque.
2. Short Textbook of preventive and social Medicine. Prentice-Hall International Inc.
3. Epidemiology in medical practice, 5th edition. Churchill Livingstone. New York, London and Tokyo.

6.4- Periodicals, Web Sites; etc

1. American Journal of Epidemiology
2. British Journal of Epidemiology and Community Health
3. WWW. CDC and WHO sites

7. Facilities Required for Teaching and Learning:

1. Adequate infrastructure includes teaching places(teaching class, teaching halls, teaching laboratory)comfortable desks, good source of aerations, bathrooms, good illumination and safety and security tools.
2. Teaching tools: includes screens, computers cd(r-w) data shows, projectors, flip charts, white boards, video players, digital video scanners, copier, colour and laser printers
3. Computer programs: for designing and evaluating MCQS.

Course Coordinator: Dr/Ahmed Fathy Hamed

Head of Department: Dr/Eman Abd El-Baset Mohammed

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013

Course Specification of Research methodology For MD of Human Anatomy & Embryology (1st part)

Sohag University

Faculty of Medicine

1. Program on which the course is given: MD. Human Anatomy & Embryology.
2. Minor or major element of the program: minor.
3. Department offering the program: Human Anatomy & Embryology
4. Department offering the course: Community Medicine Dep.
5. Academic year: Doctoral Degree (1st part).
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic Information

Title: Course Specification of Research methods For MD of Human Anatomy & Embryology.

Code: COM-0512-300

Title	lecture	practical	Total	credit
Research methods	30	30	60	3

B. Professional Information

1. Overall Aims of Course

- To influence the students to adopt an analytical thinking for evidence based medicine
- To use precisely the research methodology in researches.
- Active participation in the community needs assessment and problems identification.
- Maintenance of learning abilities necessary for continuous medical education
- Updating research interest and abilities.

2. Intended Learning Outcomes of Courses (ILOs)

a) **Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. Define the recent advances of screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests.
- a2. Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values.
- a3. Describe the study design, uses, and limitations.
- a4. Enumerate the recent advances of principles, methodologies, tools and ethics of scientific research.
- a5. Explain the strategies and design of researches.
- a6. Describe bias and confounding.

- a7. Describe sampling techniques and list advantages of sampling
 a8. Identify principles of evidence based medicine.

b) Intellectual Skills

By the end of the course, the student is expected to be able to:

- b1. Conduct research studies that add to knowledge.
 b2. Formulate scientific papers in the area of anatomy
 b3. Innovate and create researches to find solutions to prevalent problems related to the field of anatomy
 b4. Criticize researches related to anatomy.

c) Professional and Practical Skills:

By the end of the course, the student is expected to be able to:

- c1. Master the basic and modern professional skills in conducting researches in the area of anatomy.
 c2. Design new methods, tools and ways of conducting researches. .

d) General and Transferable Skills:

By the end of the course, the student is expected to be able to:

- d1. Use of different sources for information and knowledge to serve research.
 d2. Work coherently and successfully as a part of a team and team's leadership in conducting researches and field studies.

3. Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
Details of epidemiological studies (case control, cohort and cross sectional)	8	4	4
Clinical trials, Quasi experimental study	6	3	3
Bias and errors	6	3	3
Setting a hypothesis	6	3	3
Recent advances in screening	6	3	3
- Evidence – based Medicine:	4	2	2
Concept and examples	4	2	2
Applicability	4	2	2
Scientific writing:	4	2	2
A protocol			
A curriculum			
Setting an objective –	2	1	1
Critical thinking	2	1	1
Formulation of papers	8	4	4
Total	60	30	30
Credit hours	3	2	1

4. Teaching and Learning Methods

- 4.1- Lectures.
 4.2- Computer search assignments

5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.3-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.4-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.6 Computer search assignment	-General transferable skills, intellectual skills

Assessment Schedule

Assessment 1	Final written exam	Week: 24
Assessment 2	Final Structured Oral Exam	Week: 24
Assessment 3	Attendance and absenteeism throughout the course	
Assessment 4	Computer search assignment performance throughout the course	

Weighting of Assessments

Final-term written examination	50	%
Final Structured Oral Exam	50	%
Total	100	%

Any formative only assessments Attendance and absenteeism throughout the course
Computer search assignment performance throughout the course

6. List of References

6.1- Course Notes:

Lectures notes prepared by the staff members in the department

6.2- Essential Books (Text Books)

1. Maxy-Rosenau Public health and preventive medicine, Prentice – Hall International Inc.

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1. Dimensions of Community Health, Boston Burr Ridge Dubuque.
2. Short Textbook of preventive and social Medicine. Prentice-Hall International Inc.
3. Epidemiology in medical practice, 5th edition. Churchill Livingstone. New York, London and Tokyo.

6.4- Periodicals, Web Sites, etc

1. American Journal of Epidemiology
2. British Journal of Epidemiology and Community Health
3. WWW. CDC and WHO sites

7. Facilities Required for Teaching and Learning:

1. Adequate infrastructure includes teaching places (teaching class, teaching halls, and teaching laboratory) comfortable desks, good source of aerations, bathrooms, and good illumination and safety and security tools.
2. Teaching tools: includes screens, computers cd(r-w) data shows, projectors, flip charts, white boards, video players, digital video scanners, copier, colure and laser printers
3. Computer programs: for designing and evaluating MCQS.

Course Coordinator: Dr/Ahmed Fathy Hamed

Head of Department: Dr/Eman Abd El-Baset Mohammed

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013

Course Specification of Medical Genetics for MD of Human Anatomy & Embryology

Sohag University

Faculty of Medicine

1. Program on which the course is given: MD. Human Anatomy & Embryology.
2. Minor or major element of the program: minor
3. Department offering the program: Human Anatomy & Embryology
4. Department offering the course: Human Anatomy & Embryology
5. Academic year / Level: (1st part).
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A- Basic Information

Title: Course Specification of medical genetics For MD of Human Anatomy & Embryology

CODE: ANA-0512-300

Title	lecture	practical	Total	credit
Medical genetics	60	-	60	4

B- Professional Information

1. Overall Aims of Course

The aim of the program is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of **medical genetics** and necessary for further training and practice in the field of **medical genetics** through providing

- Recent scientific knowledge and skills essential for the mastery of practice of **medical genetics** according to the international standards.
- Skills necessary for proper for applying **medical genetics** for detecting different problems and diseases.
- Ethical principles related to the practice in this speciality

2. Intended learning outcomes (ILOs):

a) **Knowledge and Understanding:**

By the end of the program the student should be able to:

- a1. Define the principles of the human medical genetics.
- a2. Define the abnormalities in the human medical genetics.

b) **Intellectual Skills:**

By the end of the course the student should have the ability to:

- b1. Interpret data acquired through normal cell division.
- b2. Interpret data acquired through abnormal cell division.
- b3. Interpret data obtained from different genetic investigations.

c) **Professional and Practical Skills:**

By the end of the course the student should have the ability to:

- c1. Master the basic professional skills in medical genetics lab.
- c2. Master the modern professional skills in medical genetics lab.

d) General and Transferable Skills:

By the end of the course the student should have the ability to:

- d1. Assess himself and identify his personal learning needs.
- d2. Use of different sources for information and knowledge.
- d3. Work coherently and successfully as a part of a team and team's leadership.
- d4. Manage scientific meetings according to the available time

3. Contents

Topic	No. of hours (lectures)	lectures	practical
Cell divisions: meiosis mitosis	15	15	-
human chromosome: The normal structure of chromosomes. Types of chromosomes. chromosomal behavior during cell division	10	10	-
Chromosomal aberrations: -Structural aberrations: -Numerical aberrations:	10	10	--
chromosomal abnormalities in different diseases	10	10	-
Common diseases related to chromosomal abnormalities	15	15	-
Total	60	60	-
Credit hours	4	4	-

4. Teaching and Learning Methods

- 4.1- lectures.
- 4.2- practical lessons.
- 4.3- attending and participating in scientific conferences, workshops and thesis discussion to acquire the general and transferable skills needed.

5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4-OSPE	-Practical skills, intellectual skills

Assessment Schedule

Assessment of the candidate is at the end of the course (1st part exam)

Assessment 1	Final written exam (1 paper)	week 24
Assessment 2	Final Structured Oral Exam	week 24
Assessment 3	Final OSPE	week 24

Weighting of Assessments

Final-term written examination	50%
Structured Oral Exam	30%
OSPE	20%
Total	100%

6. List of References

6.1- Course Notes

Lectures notes prepared by the staff members in the department

6.2- Essential Books (Text Books)

-Medical genetics.

6.3- Recommended Books

1. Fitzgerald M.J.T. (2005): The anatomical basis of medicine and surgery. By Standing s., ELIS H., Healy J. C., Johnson D. and Williams A. Gray's Anatomy. Elsevier; London, New York. Sydney. Toronto.
2. McMinn R.M.H. (1994): Lasts anatomy regional and applied chapter 7; ninth edition, edited by Longman group UK.

6.4- Web Sites: www.yahoo.com www.pubmed.com

6.5-Periodicals:

- Egyptian J of Histology
- Egyptian J of Anatomy
- Acta Anatomica
- International J of Experimental Research
- Science
- Cell and Tissue Research

7. Facilities Required for Teaching and Learning

1. Adequate infrastructure includes teaching places(teaching class, teaching halls, teaching laboratory)comfortable desks, good source of aerations, bathrooms, good illumination and safety and security tools.
2. Teaching tools: includes screens, computers cd(r-w) data shows, projectors, flip charts, white boards, video players, digital video scanners, copier, colourer and laser printers
3. Computer programs: for designing and evaluating MCQS.

Course Coordinator: Dr . Salwa M. ouies

Head of Department: Dr. Mohamed A. Eldsoky

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013

Course Specification of Histology and Electron Microscope For MD of Human Anatomy & Embryology

Sohag University

Faculty of Medicine

1. Program on which the course is given: MD. Human Anatomy & Embryology.
2. Minor or major element of the program: minor.
3. Department offering the program: Human Anatomy & Embryology
4. Department offering the course: Histology and Cell Biology
5. Academic year / Level: (1st part).
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic Information

Code: HIS-0512-300

Title: Histology and Electron Microscopy

Title	lecture	practical	Total	credit
Histology and Electron Microscopy	60	-	60	4

B. Professional Information

1. Overall Aims of Course

Our aim is to graduate competent anatomy tests mastering the:

Scientific know ledges essential for introducing histology practices in research work of Anatomy.

2. Intended learning outcomes (ILOs):

a) **Knowledge and Understanding:**

By the end of the program the student should be able to:

- a1. Describe sufficient knowledge of the histological structure of the different body tissues and organs.
- a2. List the different methods for tissue examination.
- a3. Enumerate general histological stains.
- a4. Describe sufficient know ledges of types and uses of electron microscopes..
- a5. Describe sufficient know ledges of tissue preparations for electron microscopy.
- a6. Describe sufficient know ledges of tissue examination by electron microscopy.

b) **Intellectual Skills:**

By the end of the course the student should have the ability to:

- b1. Identify the different histological slides.
- b2. Analyze the contents of any histological slide.
- b3. Identify the histological structure of the body organs.
- b4. Interpret some of the medical importance of the histological structure.

c) Professional and Practical Skills:

By the end of the course the student should have the ability to:

- c1. Master the basic and modern professional skills in Histology and Electron Microscopy

d) General and Transferable Skills:

By the end of the course the student should have the ability to:

- d1. Use the computer to enter histological web sites.
- d2. Collect scientific data from the computer.

3. Contents

Topic	Total hours	Lecture hours	Practical hours
<p>1-Microscopy</p> <ul style="list-style-type: none"> -types of microscope -light microscope and the resolving power -electron microscope; types, resolving power and terms used 	4	4	
<p>2-Micro technique</p> <ul style="list-style-type: none"> -preparation of paraffin blocks -filming -smearing -Grinding -Spreading -E.M. preparations 	4	4	
<p>3-Histological stains</p> <ul style="list-style-type: none"> -HX&E -Stains for collagen fibers -Stains for elastic fibers -Stains for reticular fibers 	4	4	
<p>4-Cytology</p> <ul style="list-style-type: none"> -nucleus -cytoplasmic organelles and inclusions. 	4	4	
<p>5-Basic tissues of the body</p> <ul style="list-style-type: none"> -epithelial tissue. -connective tissue proper, cartilage, bone. -muscular tissue. -nervous tissue. 	4	4	
<p>6-Cardiovascular system</p> <p>General structure of the heart wall. General structure of the wall of blood vessels. Arteries (large+medium sized) Veins (large+medium sized) Structure of special types of arteries and veins. Arteriovenous connection; capillaries, sinusoids and arteriovenous anastomosis.</p>	6	6	

<p>7-Lymphatic system</p> <p>Structure of lymph vessels. Structure and function of lymphatic organs: Lymph nodes. Spleen thymus Tonsils</p>	4	4	
<p>8-Integumentary system</p> <p>Structure and function of the skin.</p>	4	4	
<p>9-Digestive system</p> <p>Oral cavity: Lip Tongue. Salivary glands: Digestive tract: General structure of GIT. Oesophagus. Stomach; fundus, cardiac and pylorus. Small intestine; duodenum, jejunum and ileum. Large intestine and appendix. Cell renewal in GIT. Junctions; gastro-oesophageal, pyloroduodenal and rectoanal. Pancreas. Liver. Structure and function of gall bladder.</p>	6	6	
<p>10-Respiratory system</p> <p>-Structure and function of conducting portion of the respiratory system: Nasal cavity. Trachea and tracheobronchial epithelium. Bronchial tree. Bronchioles. -structure and function of the respiratory portion: Respiratory bronchioles. Alveolar ducts and alveolar sacs. Alveoli and alveolar epithelium; types and function of cells.</p>	4	4	
<p>11-Endocrine system</p> <p>Main components of endocrine system. Pituitary gland. Thyroid gland. Parathyroid gland. Suprarenal gland Pineal gland:</p>	4	4	

12-Urinary system Kidney Urinary passages Ureter. Urinary bladder Male and female urethra.	4	4	
13-Male reproductive system Testis: Male genital ducts; structure and function:	4	4	
14-Female reproductive system Ovary; structure and function: Uterine(fallopian tubes) structure and function. Uterus; structure and function:.	4	4	
Total	60	60	
Credit hours	4	4	

4. Teaching and Learning Methods

4.1- lectures.

4.2- practical lessons.

4.3- attending and participating in scientific conferences, workshops and thesis discussion to acquire the general and transferable skills needed.

5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4-OSPE	-Practical skills, intellectual skills

Assessment Schedule

Assessment of the candidate is at the end of the course

Assessment 1	Final written exam (1 paper)	week 24
Assessment 2	Final Structured Oral Exam	week 25
Assessment 3	Final OSPE	week 25

Weighting of Assessments

Final written Examination	50%
Structured Oral Exam	30%
OSPE	20
Total	100%

6. List of References

6.1- Course Notes

Lectures notes prepared by the staff members in the department

6.2- Essential Books (Text Books)

-Junqueira, Carneino and Kelly (1995): Basic Histology, 7th ed. Librairie du liban and lang buruit, London, New York.

6.3- Recommended Books

- Fawcett (1994):A Text Book of Histology,12th ed. Chapman and Hall, New York, London.
- Drury, R. A.B. and Walington, E. A.(1980): Histological techniques,5th ed. Oxford university press, New York.
- Pears, A. G.E.(1985): Histochemistry theoretical and applied,4th ed.Churchill Livingstone, Melbourne and New York.
- Cormack, H. D.(1987): A text book of Histology,9th edition Lippincott,J.B. Company, Philadelphia.
- Williams, P.L.(1995):Gray's Anatomy, the anatomical bases of Medicine and Surgery,38th

6.4- Web Sites:

<http://www.histology-world.com>

<http://histo.life.illinois.edu/histo/atlas/slides.phped.>, Cgurchill, Livingstone, Britain.

6.5-Periodicals:

- Egyptian J of Histology
- Egyptian J of Anatomy
- Acta Anatomica
- International J of Experimental Research
- Science
- Cell and Tissue Research

7. Facilities Required for Teaching and Learning

1-Adequate infrastructure includes teaching places(teaching class, teaching halls, teaching laboratory)comfortable desks, good source of aerations, bathrooms, good illumination and safety and security tools.

2-Teaching tools: includes screens, computers cd(r-w) data shows, projectors, flip charts, white boards, video players, digital video scanners, copier, color and laser printers

3-Computer programs: for designing and evaluating MCQS.

Course Coordinator: Dr. Hekmat Osman

Head of Department: Dr. Eman E Abu-Dieaf

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013

Course Specification of Human Anthropology for MD of Human Anatomy & Embryology

Sohag University

Faculty of Medicine

1. Program on which the course is given: MD. Human Anatomy & Embryology
2. Minor or major element of the program: minor
3. Department offering the program: Human Anatomy & Embryology
4. Department offering the course: Human Anatomy & Embryology
5. Academic year / Level: (1st part).
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic Information

Title: Course Specification of human anthropology For MD of Human Anatomy & Embryology

CODE: ANA-0512-300

Title	lecture	practical	Total	credit
human anthropology	60	-	60	4

B. Professional Information

1. Overall Aims of Course

The aim of the program is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of **human anthropology** and necessary for further training and practice in the field of **human anthropology** through providing

1. Recent scientific knowledge and skills essential for the mastery of practice of **human anthropology** according to the international standards.
2. Skills necessary for proper for applying **human anthropology** for detecting different problems and diseases.
3. Ethical principles related to the practice in this speciality

2. Intended learning outcomes (ILOs):

a) **Knowledge and Understanding:**

By the end of the program the student should be able to:

- a1. Define the difference between different races abnormalities related to each.

b) **Intellectual Skills:**

By the end of the course the student should have the ability to:

- b1. Understands from the features of the different races the difference between human beings.

c) **Professional and Practical Skills:**

By the end of the course the student should have the ability to:

- c1. Master the basic and professional skills related to the study of human anthropology and related abnormalities.

d) **General and Transferable Skills:**

By the end of the course the student should have the ability to:

- d1. Assess himself and identify his personal learning needs.

- d2. Use of different sources for information and knowledge.
- d3. Work coherently and successfully as a part of a team and team's leadership.
- d4. Manage scientific meetings according to the available time.

3. Contents

Topic	No. of hours (lectures)	lectures	practical
1. Introduction to anthropology	10	10	
2. Different types of races	10	10	
3. Feature of each of the human race	10	10	
4. Related abnormalities of each race	10	10	
5. Related diseases of each race	10	10	
6. Areas associated with each race	10	10	
Total	60	60	
Credit hours	4	4	

4. Teaching and Learning Methods

- 4.1- lectures.
- 4.2- attending and participating in scientific conferences, workshops and thesis discussion to acquire the general and transferable skills needed.

5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills

Assessment Schedule

- Assessment of the candidate is at the end of the course (1st part exam)
- Assessment 1 Final written exam (1 paper) week 24
- Assessment 2 Final Structured Oral Exam week 24

Weighting of Assessments

Final Examination	50%
Structured Oral Examination	50%
Total	100%

6. List of References

6.1- Course Notes

Lectures notes prepared by the staff members in the department

6.2- Essential Books (Text Books)

- Fitzgerald M.J.T. (2005): The anatomical basis of medicine and surgery. By Standing s., ELIS H., Healy J. C., Johnson D. and Williams A. Gray's Anatomy. Elsevier; London, New York Sydney Toronto

6.3- Recommended Books

- McMinn R.M.H. (1994): Lasts anatomy regional and applied chapter 7; ninth edition, edited by Longman group UK.

6.4- Web Sites:

www.yahoo.com

www.pubmed.com

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

6.5-Periodicals:

-Egyptian J of Anatomy

- Acta Anatomica

- International J of Experimental Research

7. Facilities Required for Teaching and Learning:

1-Adequate infrastructure includes teaching places(teaching class, teaching halls, teaching laboratory)comfortable desks, good source of aerations, bathrooms, good illumination and safety and security tools.

2-Teaching tools: includes screens, computers cd(r-w) data shows, projectors, flip charts, white boards, video players, digital video scanners, copier, color and laser printers

3-Computer programs: for designing and evaluating MCQS.

Course Coordinator: Dr . Salwa M. Ouies

Head of Department: Dr. Esam salah

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013

Course Specification of Human Anatomy and Embryology for MD of Human Anatomy & Embryology

Sohag University

Faculty of Medicine

1. Program on which the course is given: MD. Human Anatomy & Embryology.
2. Minor or major element of the program: major.
3. Department offering the program: Human Anatomy & Embryology
4. Department offering the course: Human Anatomy & Embryology
5. Academic year / Level: (2nd part).
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic Information

Title: Course Specification of human anatomy and Embryology for MD of Human Anatomy & Embryology.

Code: ANA-0512-300

Title	Lecture	Practical	Total	Credit
Human Anatomy and Embryology	420	750	1170	53

B. Professional Information

1. Overall Aims of Course

The aim of the program is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of anatomy and embryology and necessary for further training and practice in the field of anatomy and embryology through providing

1. Recent scientific knowledge and skills essential for the mastery of practice of human anatomy and embryology according to the international standards.
2. Skills necessary for proper for applying anatomy and embryology for detecting different problems and diseases.
3. Ethical principles related to the practice in this speciality

2. Intended learning outcomes (ILOs):

a) **Knowledge and Understanding:**

By the end of the program the student should be able to:

- a1. Mention the recent advances in the normal structure and function of the different parts of human body.
- a2. Enumerate recent advances in growth and development of different parts the human body.
- a3. Describe the recent function of the different systems in relation to their structure.
- a4. List the recent advance in the abnormalities in development of different parts of human body.
- a5. Mention the recent knowledge in the applied anatomy of different parts of the human body.
- a6. Define The principles and fundamentals of ethics and legal aspects of professional practice in the field of Human Anatomy and Embryology

- a7. Define The principles and fundamentals of quality of professional practice in the field of Human Anatomy Embryology
- a8. Enumerate the effect of professional practice on the environment and the methods of environmental development and maintenance.

b) Intellectual Skills:

By the end of the course the student should have the ability to:

- b1. Interpret data acquired through bones and cadavers to understand the normal function and structure of different parts of the human body.
- b2. Interpret data acquired through normal development to understand the causes of different congenital anomalies of different parts of the human body.
- b3. Select from different tools the one that can help in reaching final solving of the anatomical problems.
- b4. Assess risk in professional practices in the field of Human Anatomy and Embryology.
- b5. Plan to improve performance in the field of Human Anatomy and Embryology.
- b6. Identify anatomical and embryological problems and find a solution.
- b7. Have the ability to innovate nontraditional solution to anatomical and embryological problems.
- b8. Manages scientific discussion administration based on scientific evidences and proofs.

c) Professional and Practical Skills:

By the end of the course the student should have the ability to:

- c1. Master the basic and modern professional skills in the area of Human Anatomy and Embryology.
- c2. Writ and evaluate medical reports.
- c3. Evaluate and develop methods and tools existing in the area of Human Anatomy and Embryology.
- c4. Dissects using the technological methods to serve the professional practice.
- c5. Train junior staff through continuous medical education programs.

d) General and Transferable Skills:

By the end of the course the student should have the ability to:

- d1. present reports in seminars effectively
- d2. Teach others and evaluate their performance.
- d3. Assess himself and identify his personal learning needs.
- d4. Use of different sources for information and knowledge.
- d5. Work coherently and successfully as a part of a team and team's leadership.
- d6. Manage scientific meetings according to the available time.

3. Contents

Topic	Total No. of hours	Lectures	Practical
1-Introduction:	30	20	10
-Anatomical position and lines -Skin and its contents -different types of bones and joints -different types of muscles and different shapes -different systems (cardiovascular-nervous-lymphatic-urogenital-digestive)			
2-Upper limb	150	50	100
Bones(clavicle –scapula-humerous-radius-ulna –carpal bone) -joints(sternoclavicular-acromioclavicular-shoulder-elbow-wrist) -Muscles(anterior and posterior compartments of the arm and forearm- muscles of the hand) -Vessels(axillary-brachial-radial –ulnar-superficial and deep arches) -nerves(brachial plexus and its branches-injury for each nerve) Muscles of the back Nerve and blood supply of the back Vertebral column and its contents Surface anatomy of different parts Applied anatomy for each			
3-Lower limb	150	50	100
-Bones (hip-femur-tibia-fibula-tarsal bones) -Muscles(compartments of the thigh and leg-muscles of the foot) -Vessels(femoral, popliteal, ant. tibial and posterior tibial) -nerves(femoral nerve and its branches-sciatic nerve and its branches) Surface anatomy of different parts Applied anatomy for each part			
4-abdomen	150	50	100

<p>Bones(hip- lumbar vertebrae) Different part of the abdomen -Muscles(muscles of the anterior and posterior abdominal walls) -Vessels(aorta and its branches-other vessels of the abdomen-anastomosis) - Nerves (lumbar plexus and its branches and supply of each nerve) -Organs(liver- spleen-pancreas - biliary system-kidneys –suprarenal glands Peritoneum and its recesses Peritoneal relation of different organs Sympathetic and parasympathetic supply of each part Injunal canal and its contents Different types of hernia Abdominal incision Surface anatomy of different parts -<u>Applies anatomy for each part</u></p>			
5-pelvis:	150	50	100
<p>Bones (hip- sacrum) Joints of the pelvis Mechanism of the pelvis Dimention of the pelvis Muscles(levator ani and coccygeus and other small muscles) -Vessels(internal iliac and its branches-internal iliac vein- other vessels of the pelvis) -nerves(sacral and coccygeal plexus and its branches) -sigmoid colon- rectum and anal canal- urinary bladder and urethra) Uterus and tubes Sympathetic and parasympathetic supply of each part Surface anatomy of different parts <u>Applies anatomy for each part</u></p>			
6-Thorax:	150	50	100
<p>Bones(sternum-ribs-vertebra) Different joints of the thorax Muscle (intercostals muscles-diaphragm) Vessels(intercostals vessels-branches of thoracic aorta) Nerves(intercostals nerves and other nerves supply the pelvis) Pleural cavity and its contents Mediastinum and its contents Surface anatomy of different parts Mechanism of respiration <u>Applies anatomy</u></p>			

7-Head and neck:	150	50	100
Bones(skull-mandible –cervical vertebra) -scalp and face -anterior and post. Triangles of the neck.and their contents -different region (submandibular-infratemporal-parotid) and their contents -pharynx -larynx -Nasal cavity -oral cavity -Vessels(common carotid and its branches) -nerves (cervical plexus and its branches-cranial nerves and its branches.) -cranial cavity and its contents. Meninges and different folds and sinuses and their connections Cranial nerves(origin- course and branches) Orbit and its contents Ear and its contents Different mechanisms(mechanism of hearing-mechanism of diglutation- voice production and articulation) Applies anatomy for each region			
8-General Embryology:	70	30	40
Anatomy of the genital system Ovulation Fertilization Implantation Folding Changes each week Later on changes			
9-Special Embryology:	170	70	100
Cardiovascular system: Urogenital system <i>Gastrointestinal system:</i> Musculoskeletal system Nervous system: Anomalies of each system			
Total	1170	420	750
Credit hours	53	28	25

4. Teaching and Learning Methods

- 4.1- lectures.
- 4.2- practical lessons.
- 4.3- Attending and participating in scientific conferences, workshops and thesis discussion to acquire the general and transferable skills needed.
- 4.4- Assignments.

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2- Log book	- General transferable skills
5.3-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.4-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.5-OSPE	-Practical skills, intellectual skills
5.6 Computer search assignment	-General transferable skills, intellectual skills

Assessment Schedule

Assessment of the candidate is at the end of the course

Assessment 1.... log book (formative exam)	Week: 80
Assessment 2.... Final written exam	Week: 96
Assessment 3....Final OSPE	Week: 96
Assessment 4 ... Final Structured Oral Exam	Week: 96

Weighting of Assessments

• Final Written Examination.	Separate exam.
Passing in the written exam is a condition to attend the following exams:	
• Structured Oral Exam.	50 %
• OSPE	50 %

Total	100%
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Formative only assessments simple research assignment, log book, attendance and absences

6. List of References

6.1- Course Notes

Lectures notes prepared by the staff members in the department

6.2- Essential Books (Text Books)

- Fitzgerald M.J.T. (2005): The anatomical basis of medicine and surgery. By Standing s., ELIS H., Healy J. C., Johnson D. and Williams A. Gray's Anatomy. Elsevier; London, New York. Sydney. Toronto.

6.3- Recommended Books

- Stevens A. and Lowe J. S. (2005): Human histology; third edition; edited by Elsevier Mosby

- Colored Atlas of anatomy.

- Martini F. H., Timmons M. J. and McKinley M.P. (2000): Human anatomy; third edition.

Tortora G. J. and Nielson M.T. (2009): Principles of human anatomy 11th edition; Edited by John Wiley and Sons ; United states.

- McMinn R.M.H. (1994): Lasts anatomy regional and applied chapter 7; ninth edition, edited by Longman group UK.

6.4- Web Sites: www.yahoo.com www.pubmed.com

<http://www.innerbody.com>

6.5-Periodicals:

- British journal of anatomy.
- Egyptian J of Histology
- Egyptian J of Anatomy
- Acta Anatomica
- International J of Experimental Research
- Science

7. Facilities Required for Teaching and Learning

1-Adequate infrastructure includes teaching places(teaching class, teaching halls, teaching laboratory)comfortable desks, good source of aeration, bathrooms, good illumination and safety and security tools.

2-Teaching tools: includes screens, computers cd(r-w) data shows, projectors, flip charts, white boards, video players, digital video scanners, copier, colourer and laser printers

3-Computer programs: for designing and evaluating MCQS.

Course Coordinator: Dr .Salwa M. Ouies.

Head of Department: Dr. Mohamed A. Eldosoky

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013