

Peer Revision

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

Program Specification of Medical Doctorate Degree of Obstetrics & Gynecology

Sohag University

Faculty of Medicine

A. Basic Information

1. Program Title: Medical Doctorate degree in Obstetrics & Gynecology
2. Program Type: Single
3. Faculty: Faculty of Medicine
4. Department (s): Obstetrics & Gynecology
5. Co-ordinator: Prof. Dr. Sabry Mahmoud.
6. Assistant coordinator: assistant lect. Mahmoud Mousa.
7. External Evaluator(s): Prof. Dr. Mamdouh Shaaban.
8. Last date of program specifications approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018.

B. Professional Information

1. Program Aims

The aim of this program is to provide the postgraduate with the advanced medical/ knowledge and skills essential for safe practice of specialty and necessary for further training and practice in the field of Obstetrics & Gynecology through providing:

1. Recent scientific knowledge essential for mastery of practice of Obstetrics & Gynecology according to the international standards.
2. Skills necessary for proper diagnosis and management of patients in the field of Obstetrics & Gynecology including diagnostic, problem solving and decision making and operative skills.
3. Ethical principles related to the practice in this highly sensitive specialty.
4. Active participation in community needs assessment and problems identification.
5. Maintenance of learning abilities necessary for continuous medical education.
6. Upgrading research interest and abilities.

2. Attributes of the post graduate:

1. Efficient in carrying out the basics and advances in methodologies of scientific research in Obstetrics and Gynecology.
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 knowledge with the other related knowledge with conclusion and developing the relationships in between them.



Program Specification of Medical Doctorate Degree of Obstetrics & Gynecology

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Faculty of Medicine

A. Basic Information

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2. Attributes of the post graduate:

1. Efficient in carrying out the basics and advances in methodologies of scientific research in Obstetrics and Gynecology.
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 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. Program Intended Learning Outcomes (ILOs)

a) Knowledge and Understanding:

By the end of the study of doctoral program in Obstetrics & Gynecology the Graduate should be able to:

- a1. Mention the recent advances in the normal structure and function of the human reproductive system on the macro levels.
- a2. Mention recent advances in the normal growth and development of the human reproductive system.
- a3. List the recent advances in the abnormal structure, function, growth and development of human reproductive system
- a4. Mention recent advances in the natural history of gynecologic diseases and obstetric problems.
- a5. Mention recent advances in the pathology of gynecologic diseases and obstetric problems.
- a6. Mention recent advances in the causation of gynecologic diseases and obstetric problems and their pathogenesis.
- a7. Enumerate Methods of promoting maternal and fetal health and preventing their illness.
- a8. List the clinical picture and differential diagnosis of gynecologic and obstetric illnesses.
- a9. Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of gynecologic and obstetric illnesses.
- a10. Describe recent advances in the various therapeutic methods/alternatives used for gynecologic and obstetric diseases.
- a11. Describe recent advances in the structure, mechanism of action, advantages, disadvantages, side effects and complications of the different family planning methods.
- a12. List principles, methodologies, tools and ethics of scientific research.

- a13. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of Obstetrics & Gynecology.
- a14. Mention the principles and fundamentals of quality assurance of professional practice in the field of Obstetrics & Gynecology.
- a15. List the effect of professional practice on the environment and the methods of environmental development and maintenance.
- a16. List the recent advances in biostatistics and computer.
- a17. List the principles of evidence based medicine.

b) Intellectual Skills

By the end of the study of doctoral program in Obstetrics & Gynecology the Graduate should be able to:

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for gynecologic and obstetric problems.
- b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for gynecologic and obstetric problems.
- b3. Conduct research studies that add to knowledge.
- b4. Formulate scientific papers in the area of Obstetrics & Gynecology.
- b5. Assess risk in professional practices in the field of Obstetrics & Gynecology.
- b6. Plan to improve performance in the field of Obstetrics & Gynecology.
- b7. Identify gynecologic and obstetric problems and find solutions.
- b8. Have the ability to innovate nontraditional solutions to gynecologic and obstetric problems.
- b9. Manage Scientific discussion based on scientific evidences and proofs.
- b10. Criticize researches related to Obstetrics & Gynecology
- b11. Innovate and create researches to find solutions to prevalent problems in the field of Obstetrics & Gynecology
- b12. Interpret data acquired through researches using different statistical tests
- b13. Identify and collect data variables impacting health and disease

c) Professional and Practical Skills

By the end of the study of doctoral program in Obstetrics & Gynecology the Graduate should be able to:

- c1. Master the basic and modern professional skills in the area of Obstetrics & Gynecology.
- c2. Write and evaluate medical reports.
- c3. Evaluate and develop methods and tools existing in the area of Obstetrics & Gynecology.
- c4. Perform endoscopic and imaging evaluation of gynecological and Obstetrics problems.
- c5. Train junior staff through continuous medical education programs.
- c6. Design new methods, tools and ways of professional practice.
- c7. Master the basic and modern professional skills in conducting researches in the area of Obstetrics & Gynecology
- c8. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent problems in the area of Obstetrics & Gynecology

d) General and Transferable Skills

By the end of the study of doctoral program in Obstetrics & Gynecology the Graduate should be able to:

- d1. Present reports on 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 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 authorities for quality assurance and accreditation of education (naqaae) for postgraduate programs. This was approved by the faculty council decree NO. 6854, in its session NO. 177 Dated: 18/5/2009. Based on these NARS; Academic Reference Standards (ARS) were suggested for this program. These ARS were revised by external evaluator and approved by the Faculty council No. 7528 in its session NO. 191 Dated: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 semestres (3.5y)

5.b-Program structure

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

Subject	hours /week		
	Lectures	Practical/ surgical	Clinical
First Part:			
Minors :			
Bio Statistics & Computer	2	2	
Research Methodology	2	2	
Primary medical reports	1	2	
Basic sciences:			
Anatomy	1		
Microbiology & Immunology	2		
Pathology	2		
Genetics and Molecular biology	2		
Second Part:			
Gynecology and Obstetrics	6.5	6.5	6.5

code	Item	No	%	
b.i	Total credit hours	Compulsory	90	100
		Elective	0	0
		Optional	0	0
b.iii	credit hours of basic sciences courses	7	7.8%	
b.iv	credit hours of courses of social sciences and humanities	0	0	
b.v	credit hours of specialized courses:	52	57.8%	
b.vi	credit hours of other course	8	8.9%	
b.vii	Practical/Field Training	8	8.9%	

b.viii	Program Levels (in credit-hours system):		
	Level 1: 1 st part	15	16.7%
	Level 2: 2 nd Part	52	57.8%
	Level 3: Thesis	15	16.7%

6. Program Courses

6.1- Level/Year of Program:

Semester...1.....

First part:

a. Compulsory

Course Title	Total No. of Credit hours	No. of hours /week		Program ILOs Covered (By No.)
		Lect.	Lab.	
Biostatistics & Computer	3	2	2	a16, b12, b13, c8, d2, d5
Research Methodology	3	2	2	a12, a17, b3, b4, b10, b11, c6, c7, d5,d6
Primary medical reports	2	1	2	a12, a13, b5, c2, d4, d7
Anatomy & embryology	1	1		a1, a2, a3,b6,c1,d5
Microbiology & Immunology	2	2		a6, a9, a10, b2, b6, c6, d4, d5
Pathology	2	2		a4, a5,b2, c2, d4,d5
Genetics & Molecular biology	2	2		a6, b2, c6, d5

Second part

a. Compulsory

Course Title	Total No. of Credit hours	No. of hours /week			Program ILOs Covered (By No.)
		Lect.	surgical.	clinical	
Obstetrics	52	6.5	6.5	6.5	a6, a7, a8, a9, a10, a14, a15, b1, b2, b3, b4, b5, b6, b7, b8, b9, c1, c3, c4, c5, c6 , d1, d3, d4, d5, d6
Gynecology					a6, a8, a9, a10, a11, a14, a15, b1, b2, b3, b4, b5, b6,b7, b8, b9, c1,c3, c4,c5, c6,d1, d3, d4, d5,d6

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 Obstetrics & Gynecology 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: (52 Credit hours ≥ 24 months= 4 semesters):

- Program related specialized science of Obstetrics & Gynecology 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	٦
Training courses	دورات تدريبية	12/ day
Conference attendance	حضور مؤتمرات علمية	١٢/day 18/day
	داخلي خارجة	
Thesis discussion	حضور مناقشات رسائل	٦
Workshops	حضور ورش عمل	١٢/day
Journal club	ندوة الدوريات الحديثة	٦
Seminars	لقاء علمي موسع	٦
Morbidity and Mortality conference	ندوة تحليل المخاطر المرضية أو الوفاة	٦
Self education program	برنامج التعليم الذاتي	٦

- 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-Activities		- 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, general transferable 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
- Primary medical reports: Written Exam (2 hour) + Structured oral Exam+ OSPE
- Anatomy & embryology: Written Exam (2 hour) + structured oral Exam.
- Microbiology & Immunology: Written Exam (2 hour) + structured oral Exam.
- Pathology: Written Exam (2 hour) + structured oral Exam.
- Genetics & Molecular biology: Written Exam (2 hour) + structured oral Exam.

Part II:

- Obstetrics and Gynecology: Two Written Exams (3 hours for each) + one written exam containing commentary (1.5 hours) + OSCE + Structured oral Exam + Operative Exam.

10. Evaluation of Program Intended Learning Outcomes

Evaluator	Tool	Sample
1- Senior students	Questionnaire	7
2- Alumni	Questionnaire	8
3- Stakeholders (Employers)	Questionnaire	25
4-External Evaluator(s) (External Examiner(s))	Report	1
5- Other		

Course Specification of Applied Biostatistics in MD degree in Obstetrics & Gynecology

Sohag University

Faculty of Medicine

1. Program Title: MD degree in Obstetrics & Gynecology.
2. Minor element of program
3. Department offering the program: Obstetrics & Gynecology
4. Department offering the course: Community Medicine and public Health.
5. Academic Year/level: 1st part
6. Date of specification approval: Faculty council No."317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specification of Applied biostatistics in MD degree in Obstetrics & Gynecology.

Code: COM 0520-300.

Total hours

Title	lecture	practical	total	credit
Applied biostatistics	30	30	60	3

B. Professional Information

1. Overall Aims of Course

- The aim of this program is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mystery of the practice of biostatistics specialty and necessary to provide further training and practice in the field of Obstetrics & Gynecology through providing recent scientific knowledge essential for the mystery of practice of biostatistics according to the international standards
- To use precisely computer programs

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. Identify and collect data variables impacting health and disease
- b2. Interpret data acquired through researches using different statistical tests

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 in the area of Obstetrics & Gynecology

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 hours	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- Essential Books (Text Books)

1-Maxy-Rosenau Public health and preventive medicine, 2008.,Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

6.2- Recommended Books

- 1- Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.
- 2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.
- 3- Clinical Epidemiology: The Essentials, 2013, Robert F., Suzanne W. Fletcher, Grant S., publisher Lippincott Williams & Wilkins; 5 edition.

6.3- 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:** including teaching places (teaching class, teaching halls, teaching laboratory), Comfortable desks, good source of aeration, bathrooms, good illumination, safety & Security tools.
- 2- **Teaching Tools:** including screens, Computer including cd(rw), data shows, Projectors, flip charts, white board, video player, digital video camera, Scanner, copier, colour and laser printers.
- 3- **Computer Program:** for designing and evaluating MCQs

Course Coordinator: Dr/Foad Metry Atya

Head of Department: Prof/ Ahmed Fathy Hammed

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

Course Specification of Research Methodology in MD degree in Obstetrics & Gynecology

Sohag University

Faculty of Medicine

1. **Program Title:** MD degree in Obstetrics & Gynecology.
2. Minor element of program.
3. Department offering the program: Obstetrics & Gynecology
4. Department offering the course: Community Medicine and public Health.
5. Academic Year/level: 1st part
6. Date of specification approval: Faculty council No."317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specification of research methodology in MD degree in Obstetrics & Gynecology.

Code: COM 0520-300.

Total hours

Title	lecture	practical	total	credit
Research methods	30	30	60	3

B. Professional Information

1. Overall Aims of Course

- The aim of this program is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mystery of the practice of Research methodology specialty and necessary to provide further training and practice in the field of Obstetrics & Gynecology
- To influence the students to adopt an analytical thinking for evidence based medicine

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. Know 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 allowed to:

- b1. Conduct research studies that add to knowledge.

- b2. Formulate scientific papers in the area of Obstetrics & Gynecology.
- b3. Innovate and create researches to find solutions to prevalent problems in the field of Obstetrics & Gynecology
- b4. Criticize researches related to Obstetrics & Gynecology.

c. Professional and Practical Skills:

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

- c1. Master the basic and modern professional skills in conducting researches in the area of public health and community medicine.
- 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: Concept and examples	4	2	2
Applicability	4	2	2
Scientific writing: A protocol	4	2	2
A curriculum	4	2	2
Setting an objective	2	1	1
- Critical thinking	2	1	1
Formulation of papers	8	4	4
Total hours	60	30	30
Total Credit hours	3	2	2

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
5.2-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

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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

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Final Structured Oral Exam	50%
Total	100%

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

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6.3- Periodicals, Web Sites, ...etc

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

7. Facilities Required for teaching and learning.

1. **Adequate infrastructure:** including teaching places (teaching class, teaching halls, teaching laboratory), Comfortable desks, good source of aeration, bathrooms, good illumination, safety & Security tools.
2. **Teaching Tools:** including screens, Computer including cd(rw), data shows, Projectors, flip charts, white board, video player, digital video camera, Scanner, copier, colour and laser printers.
3. **Computer Program:** for designing and evaluating MCQs

Course Coordinator: Dr/Foad Metry Atya

Head of Department: Prof/ Ahmed Fathy Hammed

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

Course Specification of Primary medical reports in MD degree in Obstetrics & Gynecology

Sohag University

Faculty of Medicine

1. **Program Title:** MD degree in Obstetrics & Gynecology.
2. Minor element of program
3. Department offering the program: Obstetrics & Gynecology
4. Department offering the course: Forensic Medicine and Clinical Toxicology.
5. Academic Year/level: 1st part
6. Date of specification approval: Faculty council No ."317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specification of Primary medical reports in MD degree in Obstetrics & Gynecology.

Code: FOR 0520-300.

Total hours

Title	lecture	practical	total	credit
Primary medical reports	15	30	45	2

B. Professional Information

1. Program Aims:

The aim of this program is to provide the postgraduate with the advanced medical/ knowledge and skills essential for safe practice of specialty and necessary for further training and practice in the field of Obstetrics & Gynecology. through providing:

1. Recent scientific knowledge essential for mastery of safe practice of Obstetrics & Gynecology according to the international standards.
2. Ethical principles related to the practice in this highly sensitive specialty.
3. Active participation in community needs assessment and problems identification.

2. Program Intended Learning Outcomes (ILOs)

a) **Knowledge and Understanding:**

By the end of the study of doctoral program in Obstetrics & Gynecology the Graduate should be able to:

- a1. Describe ethics of scientific research.
- a2. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of Obstetrics & Gynecology.

b) **Intellectual Skills**

By the end of the study of doctoral program in Obstetrics & Gynecology the Graduate should be able to:

- b1. Assess risk in professional practices in the field of Obstetrics & Gynecology.

c) **Professional and Practical Skills**

By the end of the study of doctoral program in Obstetrics & Gynecology the Graduate should be able to:

c1. Writ and evaluate medical reports.

d) General and Transferable Skills

By the end of the study of doctoral program in Obstetrics & Gynecology the Graduate should be able to:

d1. Assess himself and identify his personal learning needs.

d2. Manage scientific meetings according to the available time.

3. Contents

Topic	No. of hours	Lecture	Practical
The pathology of wounds, abdominal injuries, self-inflicted injury	1	1	
The systemic effect of genital trauma & Permanent infirmity	.5	1	
Head and spinal injuries and their effects on obstetrics & gynecology	6	2	4
The medicolegal aspects of firearm injuries in a pregnant woman	3	1	2
Burn and scold during pregnancy	3	1	2
How to write a medicolegal report& How to write death certificate	6	2	4
The medicolegal aspect of deaths associated with surgical procedures and toxicological sampling	6	2	4
Obligation of physicians (towards patients, colleagues, community)	3	1	2
Consent, and professional secrecy	3	1	2
Types of malpractice, and items of medical responsibility	6	2	4
Medicolegal aspects of organ transplantation, intersex states, euthanasia, assisted reproduction techniques	3	1	2
ethical considerations of medical research involving human subjects	6	2	4
Total hours	45	15	30
Credit	2	1	1

4. Teaching and Learning Methods

4.1-Lectures.

4.2- Assignments for the students to empower and assess the general and transferable skills

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 assignment	-General transferable skills, intellectual skills

Assessment Methods

- 1- Assessment 1: written examination week 24
- 2- Assessment 2: Structured Oral Exam week 24
- 3- Assessment of attendance & absenteeism throughout the course

Weighting of Assessments

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

Formative only assessments: attendance and absenteeism

6. List of References

Essential books

Simpson's Forensic Medicine, 13th Edition, by Jason Payne-James, Richard Jones, Steven B Karch, John Manlove. published by Hodder & Stoughton Ltd (2011).

Goldfrank's Toxicologic Emergencies, (9th ed.) by Lewis S. Nelson, Robert S. Hoffman, Mary Ann Howland, Neal A Lewin, Lewis R. Goldfrank, Neal E. Flomenbaum. Published by McGraw-Hill (2011)

Emergency Toxicology, Peter Viccellio, (2nd ed.) Published by Lippincott Williams & Wilkins (1998)

Recommended books

Medical ethics. (1997) Robert M Veatch. 2nd edition. Jones & Bartlett publishers

Periodicals and websites.....etc.

Egyptian journals of forensic medicine and clinical toxicology
International journals of forensic medicine and clinical toxicology
www.sciencedirect.com
<https://emedicine.medscape.com>
<https://www.ncbi.nlm.nih.gov/pmc/>

7. Facilities Required for teaching and learning.

1. **Adequate infrastructure:** including teaching places (teaching class, teaching halls, teaching laboratory), Comfortable desks, good source of aeration, bathrooms, good illumination, safety & Security tools.
2. **Teaching Tools:** including screens, Computer including cd(rw), data shows, Projectors, flip charts, white board, video player, digital video camera, Scanner, copier, colour and laser printers.
3. **Computer Program:** for designing and evaluating MCQs

Course Coordinator: Dr. Soheir Ali Mohamed

Head of Department: Dr. Soheir Ali Mohamed

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

Course Specification of Human Anatomy & Embryology in MD degree in Obstetrics & Gynecology

Sohag University

Faculty of Medicine

1. Program Title: MD degree in Obstetrics & Gynecology.
2. Minor element of program
3. Department offering the program: Obstetrics & Gynecology
4. Department offering the course: Human Anatomy & Embryology.
5. Academic Year/level: 1st part
6. Date of specification approval: Faculty council No."317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specification of Human Anatomy & Embryology in MD degree in Obstetrics & Gynecology.

Code: ANA 0520-300.

Total hours

Title	Lectures	Practical/Surgical	Total hour
Human Anatomy & Embryology	15		15

B. Professional Information

1. Overall Aims of Course

By the end of the course the student should be able to have the professional knowledge about the anatomy and embryology of the female genital system

2. Intended Learning Outcomes of Course (ILOs):

a) **Knowledge and Understanding:**

- a1. Mention the recent advances in the normal structure and function of the human reproductive system and female pelvis on the macro levels.
- a2. Mention recent advances in early embryo development & normal growth and development of the human reproductive and urinary systems.
- a3. List the recent advances in the abnormal structure, function, growth and development of human reproductive and urinary systems.

b) **Intellectual Skills**

By the end of the study of doctoral program in Obstetrics & Gynecology the Graduate should be able to:

- b1. Plan to improve performance in the operative field of Obstetrics & Gynecology.

c) **Professional and Practical Skills**

By the end of the study of doctoral program in Obstetrics & Gynecology the Graduate should be able to:

- c1. Master the basic and modern professional operative skills in the area of Obstetrics & Gynecology.

d) **General and Transferable Skills**

By the end of the study of doctoral program in Obstetrics & Gynecology the Graduate should be able to:

d1. Use different sources for information and knowledge.

3. **Contents**

Topic	No. of hours	Lecture	practical
Introduction	2	2	
Anatomy and embryology of pelvic structures.	2	2	
Anatomy of the perineum	2	2	
Anatomy and embryology of the uterus and vagina	2	2	
Anatomy and embryology of the ovary and tubes	2	2	
Blood and nerve supply of the pelvis	2	2	
Revision	3	3	
Total	15	15	
Credit	1	1	

4. **Teaching and Learning Methods**

4.1- Lectures.

4.2- Assignments for the students to empower and assess the general and transferable skills

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 assignment	-General transferable skills, intellectual skills

Assessment Methods

1- Assessment 1: written examination week 24

2- Assessment 2: Structured Oral Exam week 24

3- Assessment of attendance & absenteeism throughout the course

Weighting of Assessments

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

Formative only assessments: attendance and absenteeism

6. **List of References**

6.1- Essential Books (Text Books)

- Fitzgerald M.J.T. (2016): 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.

6.2- Recommended Books

- Stevens A. and Lowe J. S. (2015): Human histology; 5th edition; edited by Elsevier Mosby
- Colored Atlas of anatomy.
- Martini F. H., Timmons M. J. and McKinley M.P. (2015): Human anatomy; 10 edition.
- Tortora G. J. and Nielson M.T. (2016): Principles of human anatomy 14 edition; Edited by John Wiley and Sons ; United states.
- McMinn R.M.H. (2017): Lasts anatomy regional and applied chapter 7; 14 edition, edited by Longman group UK.

7. **Facilities Required for teaching and learning.**

1. **Adequate infrastructure:** including teaching places (teaching class, teaching halls, teaching laboratory), Comfortable desks, good source of aeration, bathrooms, good illumination, safety & Security tools.
2. **Teaching Tools:** including screens, Computer including cd(rw), data shows, Projectors, flip charts, white board, video player, digital video camera, Scanner, copier, colour and laser printers.
3. **Computer Program:** for designing and evaluating MCQs

Course Coordinator: Dr. Mohamed Al-Badry.

Head of Department: Dr. Mohamed Al-Badry.

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

Course Specification of Microbiology in MD degree in Obstetrics & Gynecology

Sohag University

Faculty of Medicine

1. **Program Title:** MD degree in Obstetrics & Gynecology.
2. Minor element of program
3. Department offering the program: Obstetrics & Gynecology
4. Department offering the course: Medical Microbiology and Immunology.
5. Academic Year/level: 1st part
6. Date of specification approval: Faculty council No."317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specification of Medical Microbiology and Immunology in MD degree in Obstetrics & Gynecology.

Code: MIC 0520-300.

Total hours

Title	Lectures	Practical/ Surgical	Total hour
Microbiology & Immunology	30		30

B. Professional Information

1. Overall Aims of Course

By the end of the course the postgraduate student should be efficiently able to have advanced knowledge of the microorganisms affecting human beings all over the world and particularly in Egypt, and learn to use the knowledge gained from applied microbiology to better understand the pathology, clinical symptoms, complications and the laboratory tests needed for diagnosis of each disease, in particular how to use microbiological testing in determining antibiotic prescription. The student is also expected to acquire advanced knowledge about the structure and function of the immune system and the role of the immune system in health and disease.

2. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and Understanding:

By the end of the course the student is expected to:

- a1. Mention recent advances in the natural history of gynecologic diseases and obstetric problems.
- a2. Mention recent advances in the causation of gynecologic diseases and obstetric problems- caused by microorganisms- and their pathogenesis.
- a3. Describe the metabolism and genetics of organisms.
- a4. Summarize the laboratory tests needed for diagnosis of each case.
- a5. Name the drugs and instructions used for treatment of each case.
- a6. Describe infection control methods
- a7. Describe the structure and function of immune system

b) Intellectual Skills:

By the end of the course the student is expected to:

- b1. Differentiate between the different types of disease causing microbes
- b2. Determine the antibiotic regimen based on previous microbiological experience and laboratory tests.
- b3. Determine the involvement of the immune system in the current disease process.

c) Professional and Practical Skills:

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

- c1. Design new methods, tools and ways of professional practice.

d) General and Transferable Skills:

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

- d1. Use appropriate computer program packages.
- d2. Use of different sources for information and knowledge.

3. Contents

Lectures	No. of hours	lectures	practical
General Bacteriology			
Bacterial anatomy & Physiology	1	1	
Bacterial genetics	1	1	
Recombinant DNA technology	1	1	
Antibiotics	2	2	
Sterilization & Disinfection	2	2	
Systematic Bacteriology			
Gram +ve cocci	2	2	
Gram -ve cocci	2	2	
Gram +ve bacilli	2	2	
Gram -ve bacilli	2	2	
General virology	2	2	
Systematic Virology			
RNA viruses	2	2	
DNA viruses	2	2	
Mycology			
Fungal classifications	1	1	
Opportunistic mycosis & Antifungal drugs	1	1	
Immunology			
Congenital & Acquired Immunity	1	1	
Immunological Cells	1	1	
Hypersensitivity	1	1	
Transplantation	1	1	
Tumor Immunology	1	1	
Immunodeficiency	1	1	
Nosocomiology	2	2	
Total	15	15	
Credit	1	1	

4. Teaching and Learning Methods

4.1- Lectures.

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

- 1- Assessment 1: written examination week 24
- 2- Assessment 2: Structured Oral Exam week 24
- 3- Assessment of attendance & absenteeism throughout the course

Weighting of Assessments

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

Formative only assessments: attendance and absenteeism

6. List of References

6.1- Essential Books (Text Books)

Prof. Abla Elmeshad immunology, systemic bacteriology, practical books.2015

Lippincott`s immunology, systemic bacteriology

Jawetz Medical Microbiology.2016

Roitt Essential Immunology.

Abbas Clinical Immunology

Alberts Molecular Biology

6.2- Recommended Books

-A coloured Atlas of Microbiology.

-Topley and Wilson, Microbiology

6.3- Periodicals, Web Sites, ... etc

Journal of Clinical immunology.

7. Facilities Required for teaching and learning.

- 1.**Adequate infrastructure:** including teaching places (teaching class, teaching halls, teaching laboratory), Comfortable desks, good source of aeration, bathrooms, good illumination, safety & Security tools.
- 2.**Teaching Tools:** including screens, Computer including cd(rw), data shows, Projectors, flip charts, white board, video player, digital video camera, Scanner, copier, colour and laser printers.
3. **Computer Program:** for designing and evaluating MCQs

Course Coordinator: Dr. Nahed Fath-Alla Fahmy

Head of Department: Prof. Abeer M. Shenief

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

Course Specification of Pathology in MD degree in Obstetrics & Gynecology

Sohag University

Faculty of Medicine

1. Program Title: MD degree in Obstetrics & Gynecology.
2. Minor element of program
3. Department offering the program: Obstetrics & Gynecology
4. Department offering the course: Pathology.
5. Academic Year/level: 1st part
6. Date of specification approval: Faculty council No."317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specification of Pathology in MD degree in Obstetrics & Gynecology.

Code: PAT 0520-300.

Total hours

Title	Lectures	Total hour
Pathology	30	30

B. Professional Information

1. Overall Aims of Course

By the end of the course the post graduate students should be able to have the professional knowledge of the pathology of medical and neoplastic diseases related to obstetric & gynecological practice.

2. Intended Learning Outcomes of Course (ILOs):

According to the intended goals of the faculty

a) **Knowledge and Understanding:**

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

- a1. Describe recent advances in the natural history of gynecologic diseases and obstetric problems.
- a2. Develop basis of general pathology.
- a3. Become familiar with etiology, pathogenesis and pathologic manifestation of diseases related to the female genital system.
- a4. Be able to correlate gross and histopathology with the clinical basis of diseases related to the female genital system.
- a5. Have sufficient information about the fate, complications and prognosis of different diseases related to the female genital system.
- a6. Provide core knowledge of processes affecting organ system, with an emphasis on understanding mechanisms of disease related to the female genital system.
- a7. Define and discuss the main disease categories that may affect the body (general pathology).

b) **Intellectual Skills:**

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

- b1. Select from different diagnostic alternatives the one that helps reaching a final diagnosis for gynecologic and obstetric problems.

c) Professional and Practical Skills:

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

- c1. Evaluate pathological reports.

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.

3. Course contents:

Topic	Total	Lectures	Practical
1- General Pathology:			
1.1. Inflammation & repair.	1	1	
1.2. Cell response to injury and aging.	1	1	
1.3. Cellular growth disorders.	1	1	
1.4. General pathology of tumors.	1	1	
1.5. Diagnostic cytology.	2	2	
2- Female Genital system:			
2.1. Vaginitis, cervicitis, salpingitis, endometritis, puerperal sepsis	2	2	
2.2. Functional & hormonal disorders of FGS.	2	2	
2.3. Endometrial dating & hyperplasia.	2	2	
2.4. Endometriosis & adenomyosis.	2	2	
2.5. Abnormal uterine bleeding.	2	2	
2.6. Tumors of the vulva & vagina.	2	2	
2.7. Tumors of the cervix & uterine body.	4	4	
2.8. Tumors of the ovary.	4	4	
2.9. Complications of pregnancy (ectopic pregnancy & molar pregnancy).	2	2	
2.10. Tumors of the placenta.	2	2	
Total	30	30	
Credit	2	2	

4. Teaching and Learning Methods

- 4.1. Lectures.

- 4.2. Gross and histopathology (Jars & slides).

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 Methods

1- Assessment 1:

written examination

week 24

- 2- Assessment 2: Structured Oral Exam week 24
 3- Assessment of attendance & absenteeism throughout the course

Weighting of Assessments

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

Formative only assessments: attendance and absenteeism

6. List of References

6.1- Essential Books (Text Books):

- Muir's text book of pathology, 15th edition, 2014.
- Robbins Pathologic Basis of Diseases, 10th edition, 2015.

6.2- Recommended Books:

- Rosai&Ackerman text book of Pathology, 11th edition, 2017
- Sternberg text book of Pathology, 6th edition, 2015.

6.3- Periodicals:

- Journal of Pathology
- Human Pathology
- Modern Pathology
- Histopathology
- American Journal of Pathology.

Web Sites: - <http://www.ncbi.nlm.nih.gov/pubmed/>

7. Facilities Required for teaching and learning.

1. **Adequate infrastructure:** including teaching places (teaching class, teaching halls, teaching laboratory), Comfortable desks, good source of aeration, bathrooms, good illumination, safety & Security tools.
2. **Teaching Tools:** including screens, Computer including cd(rw), data shows, Projectors, flip charts, white board, video player, digital video camera, Scanner, copier, colour and laser printers.
3. **Computer Program:** for designing and evaluating MCQs

Course Coordinator: Dr. Eman Mohammed Salah

Head of Department: Dr. Afaf Al-Nashaar

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

Course Specification of Molecular Biology in MD degree in Obstetrics & Gynecology

Sohag University

Faculty of Medicine

1. **Program Title:** MD degree in Obstetrics & Gynecology.
2. Minor element of program
3. Department offering the program: Obstetrics & Gynecology
4. Department offering the course: Medical Microbiology and Immunology.
5. Academic Year/level: 1st part
6. Date of specification approval: Faculty council No."317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specification of **Molecular biology** in MD degree in Obstetrics & Gynecology.

Code: MIC 0520-300.

Total hours

Title	Lectures	Total hour
Molecular biology	30	30

B. Professional Information

1. Overall Aims of Course

By the end of the course the postgraduate student should be efficiently able to have advanced knowledge in genetic basis of gynenecologic diseases and obstetric problems & learn to use the knowledge gained to better understand the pathology, clinical symptoms, complications and the laboratory tests needed for diagnosis of each disease. The student is also expected to acquire advanced knowledge about molecular biology technique used in diagnosis of gynecologic, and obstetric illnesses.

2. Intended Learning Outcomes of Course (ILOs):

a) **Knowledge and Understanding:**

By the end of the course the student is expected to:

- a1. Mention recent advances in natural history of gynenecologic diseases and obstetric problems.
- a2. Mention recent advances in genetic basis of gynenecologic diseases and obstetric problems and their pathogenesis.
- a3. Enumerate recent advances in the molecular biology technique used in diagnosis of gynecologic, and obstetric illnesses.
- a4. Describe recent advances in the method of treatment depending upon molecular biology used for gynecologic, and obstetric diseases.

b) **Intellectual Skills:**

By the end of the course the student is expected to:

- b1. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for gynenecologic and obstetric problems.

b2. Plan to improve performance in the field of Obstetrics & Gynecology.

c) Professional and Practical Skills:

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

c1. Design new methods, tools and ways of professional practice.

d) General and Transferable Skills:

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

d1. Use of different sources for information and knowledge.

3. Contents

Topics	No. of hours	Lecture	practical
1. Identification of genetic material -DNA -RNA	8	8	
2. DNA replication:	2	2	
3. transcription	2	2	
4. Genetic code	2	2	
5. Regulation of gene action	2	2	
Molecular biology techniques			
1. Nucleic acid amplification techniques PCR:	3	3	
Total	30	30	

4. Teaching and Learning Methods

4.1- Lectures.

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

1- Assessment 1: written examination week 24

2- Assessment 2: Structured Oral Exam week 24

3- Assessment of attendance & absenteeism throughout the course

Weighting of Assessments

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

Formative only assessments: attendance and absenteeism

6. List of References

6.1- Essential Books (Text Books)

Molecular Biology of the Cell, Fourth Edition [Bruce *Alberts*, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter Walter] , 2010

6.2- Recommended Books

Topley and Wilson's Microbiology and Microbial Infections, 8 Volume Set, 10th Edition. W. W. C. Topley. ISBN: 978-0-470-68638-6. 3500, 2006.

6.3- Periodicals, Web Sites, etc

Molecular biology.

<http://mic.sgmjournals.org/>

7. Facilities Required for teaching and learning.

1. **Adequate infrastructure:** including teaching places (teaching class, teaching halls, teaching laboratory), Comfortable desks, good source of aeration, bathrooms, good illumination, safety & Security tools.
2. **Teaching Tools:** including screens, Computer including cd (rw), data shows, Projectors, flip charts, white board, video player, digital video camera, Scanner, copier, colour and laser printers.
3. **Computer Program:** for designing and evaluating MCQs

Course Coordinator: Dr. Nahed Fat-Alla Fahmy

Head of Department: Dr. Abeer M. Shenief

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

Course Specification of Obstetrics & Gynecology in MD degree in Obstetrics & Gynecology

Sohag University

Faculty of Medicine

1. **Program Title:** MD degree in Obstetrics & Gynecology.
2. Major element of program.
3. Department offering the program: Obstetrics & Gynecology
4. Department offering the course: Obstetrics & Gynecology.
5. Academic Year/level: 2nd part
6. Date of specification approval: Faculty council No."317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specification of Obstetrics & Gynecology in MD degree in Obstetrics & Gynecology.

Code: OBS 0520-300.

Total hours

Title	Lectures	Surgical	Clinical	Total hour
Obstetrics & Gynecology	390	390	390	1170

B. Professional Information

1. Program Aims:

The aim of this program is to provide the postgraduate with the advanced medical/ knowledge and skills essential for safe practice of specialty and necessary for further training and practice in the field of Obstetrics & Gynecology through providing:

1. Recent scientific knowledge essential for mastery of practice of Obstetrics & Gynecology according to the international standards.
2. Skills necessary for proper diagnosis and management of patients in the field of Obstetrics & Gynecology including diagnostic, problem solving and decision making and operative skills.
3. Ethical principles related to the practice in this highly sensitive specialty.
4. Active participation in community needs assessment and problems identification.
5. Maintenance of learning abilities necessary for continuous medical education.
6. Upgrading research interest and abilities.

2. Program Intended Learning Outcomes (ILOs)

a) **Knowledge and Understanding:**

By the end of the study of doctoral program in Obstetrics & Gynecology the Graduate should be able to:

- a1. Mention recent advances in the causation of Obstetrics & Gynecological problems and their pathogenesis.
- a2. Enumerate Methods of promoting maternal and fetal health and preventing their illness.

- a3. List the clinical picture and differential diagnosis of Obstetrics & Gynecological illnesses.
- a4. Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of obstetric & Gynecological illnesses.
- a5. Describe recent advances in the various therapeutic methods/alternatives used for obstetric & Gynecological diseases.
- a6. Describe recent advances in the structure, mechanism of action, advantages, disadvantages, side effects and complications of the different family planning methods.
- a7. List the principles and fundamentals of quality assurance of professional practice in the field of Obstetrics & Gynecology.
- a8. Mention the effect of professional practice on the environment and the methods of environmental development and maintenance.

b) Intellectual Skills

By the end of the study of doctoral program in Obstetrics & Gynecology the Graduate should be able to:

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for obstetric & Gynecological problems.
- b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for obstetric & Gynecological problems.
- b3. Conduct research studies that add to knowledge.
- b4. Formulate scientific papers in the area of Obstetrics & Gynecology.
- b5. Assess risk in professional practices in the field of Obstetrics & Gynecology.
- b6. Plan to improve performance in the field of Obstetrics & Gynecology.
- b7. Identify obstetric problems and find solutions.
- b8. Have the ability to innovate nontraditional solutions to obstetric & Gynecological problems.
- b9. Manage Scientific discussion based on scientific evidences and proofs.

c) Professional and Practical Skills

By the end of the study of doctoral program in Obstetrics & Gynecology the Graduate should be able to:

- c1. Master the basic and modern professional skills in the area of Obstetrics & Gynecology.
- c2. Evaluate and develop methods and tools existing in the area of Obstetrics & Gynecology.
- c3. Perform endoscopic and imaging evaluation of Obstetrics & Gynecological problems.
- c4. Train junior staff through continuous medical education programs.
- c5. Design new methods, tools and ways of professional practice.

d) General and Transferable Skills

By the end of the study of doctoral program in Obstetrics & Gynecology the Graduate should be able to:

- d1. Present reports on seminars effectively.
- d2. Teach others and evaluate their performance.
- d3. Assess himself and identify his personal learning needs.
- d4. Use 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. Curriculum Structure and Contents

Topics	No. Of Hours	Lectures	surgical	clinical
Obstetrics				
- Fertilization, implantation, and early development of the fetus, placenta, cord.	3	3		
- Placental function, abnormalities of placenta.	3	3		
- Formation and function of liquor amni, foetal circulation.	3	3		
- Physiology of pregnancy.	14	4		10
- Diagnosis of pregnancy.	8	3		5
s- Antenatal care.	14	4		10
- Hyperemesis gravidarum, Pyelitis with pregnancy.	8	3		5
- Abortion.	21	3	13	5
- Ectopic pregnancy.	16	3	9	4
- Hydatidiform mole.	15	3	8	4
- Hypertensive disorders during pregnancy.	16	6		10
- Placenta praevia.	9	3		6
- Accidental haemorrhage	6	3		3
- Diabetes with pregnancy.	15	6		9
- Anaemias with pregnancy.	9	4		5
- High-risk pregnancy.	3	3		
- Polyhydramnios, oligohydramnios.	8	3		5
- Foetal growth and its disorders.	7	3		4
- Rh isoimmunization.	3	3		
- Common foetal anomalies.	3	3		
- Placental insufficiency. Antepartum assessment of foetal well-being.	14	5		9
- Anatomy of female bony pelvis, anatomy of foetal skull.	9	3		6
- Physiology of normal labour.	4	4		
- Mechanism of normal labour.	3	3		
- Management of normal labour.	29	5	12	12
- Analgesia, anaesthesia in obstetrics.	3	3		
- Occipito-posterior position.	18	3	10	5
- Face and brow presentation.	13	3	6	4
- Breech presentation.	23	3	15	5
- Shoulder & complex presentation.	7	3		4
- Cord presentation and prolapse.	6	2		4
- Multiple pregnancy.	17	5	7	5
- Abnormal uterine action.	8	3		5

- Contracted pelvis, cephalopelvic disproportion.	10	5		5
- Soft tissue dystocia.	3	3		
- Obstructed labour.	8	3		5
- Rupture uterus.	14	3	6	5
- Lower genital tract injuries during labour.	19	3	10	6
- Postpartum haemorrhage.	21	5	10	6
- Other third stage complications.	3	3		
- Foetal birth injuries.	7	3		4
- Neonatal asphyxia.	7	3		4
- Post-term pregnancy.	8	3		5
- Preterm labour and prematurity.	10	5		5
- I.U.F.D.	8	3		5
- Normal puerperium.	5	3		2
- Puerperal sepsis, pyrexia.	6	3		3
- Induction of labour.	8	3	5	
- Instrumental deliveries in modern obstetric practice.	11	3	8	
- Cesarean section.	40	5	35	
9-ULTRASOUND IN OBSTETRICS:	23	5	18	
10- MATERNAL AND PERINATAL MORTALITY.	3	3		
Gynecology				
- Physiology of menstruation.	6	6		
- Puberty.	6	3		3
- Menopause.	11	6		5
- Dysmenorrhea and premenstrual syndrome	8	3		5
- Amenorrhea.	13	6		7
- Ovulation and its disorders.	11	6		5
- Abnormal bleeding from the genital tract.	16	6		10
- Human sexuality and female sexual dysfunction.	11	6		5
- Infertility.	44	12	20	12
3-REPRODUCTIVE TRACT INFECTIONS:	4	4		
- Sexually transmitted diseases.	8	3		5
- Pelvic inflammatory disease.	10	6		4
- Lower genital tract infections.	9	3		6
- Genital prolapse-R.V.F.	36	8	18	10
- Genito-urinary fistula and stress incontinence.	24	9	10	5
- Old complete perineal tear & rectovaginal fistula.	18	6	8	4
5-UTERINE FIBROIDS.	34	10	12	12

6-ENDOMETRIOSIS AND ADENOMYOSIS.	17	6	6	5
- Benign swelling of the vulva and cancer vulva.	15	6	4	5
- Benign swelling of the vagina & cancer vagina.	11	3	4	4
- Cervical carcinoma.	30	10	10	10
- Cancer body.	28	9	10	9
- Ovarian tumours.	34	11	12	11
- Choriocarcinoma.	11	6		5
Hormonal (oral contraceptives-injectables- implants)	11	5		6
Intrauterine contraception.	16	3	7	6
9-BREAST FOR THE GYNECOLOGIST:	8	3		5
10-IMAGING IN GYNECOLOGY:	25	7	18	
11-OPERATIVE GYNECOLOG, INCLUDING ENDOSCOPY	47	12	35	
Total	1170	390	390	390
Credit	52	26	13	13

4. Teaching & Learning methods.

1. Lectures.
2. Clinical lessons
3. Surgical lessons
4. Assignment
5. Attending and Participating in Scientific Conference, Workshop and thesis discussion to acquire the general and transferable skills needed.

5. Methods of student assessments:

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-OSCE	-Practical skills, intellectual skills General transferable skills
5.6 Computer search assignment	-General transferable skills, intellectual skills

Assessments schedule:

Assessment 1.... log book (formative exam)	Week: 80
Assessment 2.... Final OSCE	Week: 96
Assessment 3.....Final written exam	Week: 96
Assessment 4 ... 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 %
• OSCE	50 %
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Total	100%

Formative only assessment: simple research assignment, log book, attendance and absenteeism.

6. List of References

6.1- Essential Books (Text Books)

Essentials of Obstetrics & Gynecology 2008.

Illustrated of Obstetrics & Gynecology 2009.

6.2- Recommended Books

High risk pregnancy by frenando 2009.

Williams Obstetrics 2010.

6.3- Periodicals, Web Sites, ... etc

Clinical Obstetrics & Gynecology.

Cochrane Library, Medline & Popline

7. Facilities Required for teaching and learning.

1. **Adequate infrastructure:** including teaching places (teaching class, teaching halls, teaching laboratory), Comfortable desks, good source of aeration, bathrooms, good illumination, safety & Security tools.
2. **Teaching Tools:** including screens, Computer including cd(rw), data shows, Projectors, flip charts, white board, video player, digital video camera, Scanner, copier, colour and laser printers.
3. **Computer Program:** for designing and evaluating MCQs

Head of Department: Abdo Saied Ait Alla

Course Coordinator: Dr/Sabry Mahmoud

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018