



## إعتماد توصيف مقررات برنامج الماجستير في التوليد و أمراض النساء

نقر نحن الموقعون على هذا أدناه أن توصيف وثيقة البرنامج التعليمي لدرجة الماجستير في التوليد و أمراض النساء والمقررات الدراسية المكونة له قد تم وضعها بمعرفة الأقسام المعنية

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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       |

# **Program specification of Master degree in Obstetrics & Gynecology**

**Sohag University**

**Faculty of Medicine**

## **A. Basic Information**

1. Program Title: Master degree in Obstetrics & Gynecology
2. Program Type: Single
3. Faculty: Faculty of Medicine
4. Department : Obstetrics & Gynecology
5. Coordinator: Prof. Dr. Moustafa Abd El-Khalek.
6. Assistant coordinator: : assistant lect. Magdy Abdelrahman Mohammad
7. External Evaluator(s): Prof. Dr. Hosam Thabet Salem.
8. 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 this program is to provide the postgraduate with the medical/ knowledge and skills essential for safe practice of specialty and necessary to gain further training and practice in the field of Obstetrics & Gynecology. through providing:

- 1- Scientific knowledge essential for 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 solving.
- 5- Maintenance of learning abilities necessary for continuous medical education.
- 6- Maintenance of research interest and abilities.

### **2. Attributes of the student:**

1. Mastering the basics of scientific research methodologies.
2. The application of the analytical method and used in the field of OB.GYN
3. The application of specialized knowledge and integrate it with the relevant knowledge in practice.
4. Be aware of the problems and has modern visions in the field of OB.GYN
5. Identify problems in the field of OB.GYN and find solutions to them.
6. Mastery of professional skills in this specialty and use of the appropriate recent technologies supporting these skills.
7. Communicate effectively and the ability to lead work teams.
8. Decision-making in his professional contexts.

9. To employ and preserve the available resources to achieve the highest benefit.
10. Awareness of his role in the community development and preservation of the environment at the lights of both international and regional variables.
11. Reflects the commitment to act with integrity and credibility, responsibility and commitment to rules of the profession.
12. Academic and professional self development and be capable of continuous learning.

### **3. Program Intended Learning Outcomes (ILOs)**

#### **a) Knowledge and understanding.**

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

- a1. Mention the normal structure and function of the female human reproductive system on the macro levels.
- a2. Mention the normal growth and development of the female human reproductive system.
- a3. List the abnormal structure, function, growth and development of female human reproductive system
- a4. Mention the physiology of the female human reproductive system & conception.
- a5. Mention the basic surgical principals.
- a6. Mention the basic medical disease related to pregnancy.
- a7. Mention natural history of gynenecologic diseases and obstetric problems.
- a8. Mention the causation of gynenecologic diseases and obstetric problems and their pathogenesis.
- a9. Enumerate Methods of promoting maternal and fetal health and preventing their illness.
- a10. List the clinical picture and differential diagnosis of gynecologic, and obstetric illnesses.
- a11. Enumerate common diagnostic and laboratory techniques necessary to establish diagnosis of gynecologic, and obstetric illnesses.
- a12. Describe the various therapeutic methods/alternatives used for gynecologic, and obstetric diseases.
- a13. Describe the structure, mechanism of action, advantages, disadvantages, side effects and complications of the different family planning methods.
- a14. Mention scientific developments in the field of Obstetrics & Gynecology.
- a15. Mention the mutual influence between professional practice and its impacts on the environment.
- a16. Mention the ethical and legal principles of professional practice in the field of Obstetrics & Gynecology.
- a17. List the principles and fundamentals of quality in professional practice in the field of Obstetrics & Gynecology.
- a18. Mention the basics and ethics of scientific research.

#### **b) Intellectual skills**

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

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for gynenecologic and obstetric problems.
- b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for gynenecologic and obstetric problems.

- b3. Link between knowledge for Professional problems solving.
- b4. Conduct a research study and / or writing a scientific study on a research problem.
- b5. Assess risk in professional practices in the field of Obstetrics & Gynecology.
- b6. Plan to improve the performance in the field of Obstetrics & Gynecology.
- b7. Identify gynecological & obstetrics problems and find solutions for them.
- b8. Analyze researches and issues related to the Obstetrics & Gynecology.

**c) Professional and practical skills**

By the end of the study of master 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. Assess methods and tools existing in the area of Obstetrics & Gynecology

**d) General and Transferable Skills**

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

- d1. Communicate effectively by all types of effective communication.
- d2. Use information technology to serve the development of professional practice
- d3. Assess himself and identify personal learning needs.
- d4. Use different sources to obtain information and knowledge.
- d5. Develop rules and indicators for assessing the performance of others.
- d6. Work in a team, and team's leadership in various professional contexts.
- d7. Manage time efficiently.
- d8. Learn himself continuously

**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 revised by external evaluator and 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. This ARS were 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- Programme duration 6 semesters (3 years)
- 5.b-program structure
- 5.b.i- No. of hours per week:

| Course             | hours /week |           |          |
|--------------------|-------------|-----------|----------|
|                    | Lectures    | Practical | Clinical |
| <b>First Part:</b> |             |           |          |

|  |      |      |      |
|--|------|------|------|
| Anatomy  | 1    | --   | --   |
| Microbiology & Immunology                          | 2    | --   | --   |
| physiology   | 2    | --   | --   |
| Pathology  | 2    | --   | --   |
| Internal medicine & Neonatology                    | 1    | 2    | --   |
| General surgery                                    | 1    | 2    | --   |
| Community Medicine                                 | 2    | --   | --   |
| Bio Statistics & Computer and Research Methodology | 1    | 2    | --   |
| <b>Second Part:</b>                                |      |      |      |
| Gynecology   | 2    | 1.33 | 1.33 |
| Obstetrics   | 2    | 1.33 | 1.33 |
| Family planning                                    | 0.66 | 0.66 | 0.66 |

| code   | Item  | No         | %  |     |
|--------|---|------------|----|-----|
| b.i    | Total credit hours  | Compulsory | 50 | 100 |
|        |   | Elective   | 0  | 0   |
|        |   | Optional   | 0  | 0   |
| b.iii  | credit hours of basic sciences courses                    | 7          | 14 |     |
| b.iv   | credit hours of courses of social sciences and humanities | 0          | 0  |     |
| b.v    | credit hours of specialized courses:                      | 24         | 48 |     |
| b.vi   | credit hours of other course                              | 8          | 16 |     |
| b.vii  | Practical/Field Training                                  | 5          | 10 |     |
| b.viii | Program Levels (in credit-hours system):                  |            |    |     |
|        | Level 1: 1 <sup>st</sup> part                             | 15         | 30 |     |
|        | Level 2: 2 <sup>nd</sup> Part                             | 24         | 48 |     |
|        | Level 3: Thesis   | 6          | 12 |     |

6. **Program Courses** 12 courses are compulsory.

**6.1- Level 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./ clinical |   |
| Anatomy & Embryology           | 1                         | 1                  | --             | a1.a2, a3, b3, c1,d2,d3                           |
| Microbiology & Immunology      | 2                         | 2                  | --             | a8, a11, b2,b3, c3,d2, d8                         |
| Physiology                     | 2                         | 2                  | --             | a1, a4,b3, c3, d4, d8                             |
| Pathology                      | 2                         | 2                  | --             | a7, a11, b2, c2, d4, d5                           |
| Internal medicine& Neonatology | 2                         | 1                  | 2              | a5,a9, b1, b3,b5, c1,c2, d1, d2,d4                |
| General Surgery                | 2                         | 1                  | 2              | a5,b1, c1, d1,d4                                  |
| Community Medicine             | 2                         | 2                  | --             | a9, a15, a16, a17, a18, b4,b7, b8, c3, d1, d2, d3 |

|  |   |   |   |                               |
|--|---|---|---|-------------------------------|
| Biotatistics & Computer and Research Methodology | 2 | 1 | 2 | a17, a18, b4, b8, c3, d2, d4. |
|--|---|---|---|-------------------------------|

## Second part

### a. Compulsory

| Course Title    | Total No. of Credit hours | No. of hours /week |      | Program ILOs Covered (By No.)  |
|-----------------|---------------------------|--------------------|------|--|
|                 |                           | Lect.              | Lab. |  |
| Obstetrics      | 10                        | 2                  | 2.66 | a8,a9, a10, a11,a12, a14, b1,b2,b3,b4, b5,b6 ,b7, b8, c1,c2 ,c3, d1, d3,d4, d5,d6, d7,d8 |
| Gynecology      | 10                        | 2                  | 2.66 | a8,a10,a11,a12,a14, b1,b2,b3,b4, b5,b6 ,b7,b8, c1,c2,c3, d1, d3,d4,d5,d6, d7,d8          |
| Family planning | 4                         | 0.66               | 1.33 | a13, b3,b4, b5,b6, b8, c1,,c3, d1, d3,d4, d6, d7,d8                                      |

## 7. Program Admission Requirements

### I- General Requirements.

1. Candidate should have either:
  - i. MBBCh degree from any Egyptian Faculty of Medicine or
  - ii. Equivalent Degree from Medical Schools abroad approved by the ministry of high Education.
2. Candidate should pass the house office training year.
3. Those who are not university hospital residents should pass a training for at least 12 months in one of the known hospitals.
4. Follow postgraduate bylaw Regulatory rules of Sohag Faculty of Medicine approved by the ministerial decree No. (44), dated 6/1/2010.

### II- Specific Requirements.

1. Candidates graduated from Egyptian Universities should have at least "Good Rank" in their final year/ cumulative years examination, and grade "Good Rank" in Obstetrics & Gynecology course too.
2. Candidate should know how to speak & write English well
3. Candidate should have computer skills

## 8. Regulations for Progression and Program Completion

Duration of program is 50 credit hours ( $\geq 4$  semesters  $\geq 3$  years), starting from registration till 2<sup>nd</sup> part exam; divided to:

### First Part: (15 Credit hours $\geq 6$ months $\geq 1$ semester):

- Program-related basic & clinical sciences & 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 1<sup>st</sup> part.
- Two sets of exams: 1st in October — 2nd in April.
- At least 50% of the written exam 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 for the next time only, and if re-fail, should register for the course from the start.

**Thesis/Essay(6 Credit hours  $\geq$ 6 months=1 semester):**

- Completion of the 1<sup>st</sup> part credit hours and passing the exams are pre requisites for documentation of the **Thesis/Essay** subject.
- Should be completed, defended and accepted after passing the 1st part examination, and at least one month before allowing to enter 2nd part final examination.
- Accepting the thesis is enough to pass this part.

**Second Part: (24 Credit hours  $\geq$ 18 months= 3 semesters):**

- Program related specialized science of Obstetrics, Gynecology and Family planning courses.
- Completion of the 1st part credit hours and passing the exams are pre requisites for documentation of the 2nd part courses.
- After passing at least:
  - University hospital residents: 36 months residency in the department of Obstetrics & Gynecology.
  - Residents in other places: Completed 36 months residency; 12 months of them training in the department of Obstetrics & Gynecology.
- The students should pass the 1st part before asking for examination in the 2nd part.
- Fulfillment of the requirements in each course as described in the template and registered in the log book (5 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= 5 Cr. Hr. X 60 working Hrs = 300 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<br>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       |

|   |                                      |   |
|---|--------------------------------------|---|
| <b>Morbidity and Mortality conference</b> | ندوة تحليل المخاطر المرضية أو الوفاة | 6 |
| <b>Self education program</b>             | برنامج التعليم الذاتي                | 6 |

- Two sets of exams: 1st in October - 2nd in April.
- At least 50% of the written exam is needed to pass in each course.
- For the student to pass the 2<sup>nd</sup> part exam, a score of at least 60% (Level D) in each course is needed.

### **9. Methods of student assessments:**

| Method of assessment   | weight | The assessed ILOs  |
|--|--------|--|
| 1-Activities   |        | - General transferable skills, intellectual skills   |
| 2-Written Exams:<br>-Short essay: 40%<br>-structured questions: 25%<br>-MCQs: 20%<br>-Commentary, Problem solving: 15% | 50%    | - Knowledge<br>- Knowledge<br>- Knowledge, intellectual skills<br>- 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:**

- Anatomy & Embryology: Written Exam (2 hours) + Structured oral Exam
- Physiology: Written Exam (2 hours) + structured oral Exam
- Pathology: Written Exam (2 hours) + Structured oral Exam
- Community Medicine: Written Exam (2 hours) + Structured oral Exam
- Microbiology: Written Exam (2 hours) + Structured oral Exam
- Internal medicine & neonatology: Written Exam (2 hours) + Structured oral Exam
- General Surgery: Written Exam (2 hours) + Structured oral Exam + OSCE
- Biostatistics & Computer and Research Methodology: Written Exam (2 hours) + Structured oral Exam+ OSPE

#### **Part II:**

- Obstetrics, Gynecology, and family planning: Two Written Exams (3 hours for each, one for Obstetrics and the 2<sup>nd</sup> for, Gynecology ) + one written exam (2 hours) for family planning + one written exam containing commentary (1.5 hours) + OSCE + Structured oral Exam.

### **10. Evaluation of Program Intended Learning Outcomes**

| Evaluator                                      | Tool          | Sample |
|--|---------------|--------|
| 1- Senior students                             | Questionnaire | 8      |
| 2- Alumni                                      | Questionnaire | 16     |
| 3- Stakeholders ( Employers)                   | Questionnaire | 25     |
| 4-External Evaluator(s) (External Examiner(s)) | Report        | 1      |
| 5- Other                                       |               |        |



## Course Specification of Human Anatomy & Embryology in Master degree in Obstetrics & Gynecology.

**Sohag University**

**Faculty of Medicine**

1. Program Title: Master 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: 1<sup>st</sup> 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 & Embryology in Master degree in Obstetrics & Gynecology.

**Code:** ANA 0520-200

#### Total hours

| lectures | Practical/<br>Tutorial | Total hour | Credit hours |
|----------|------------------------|------------|--------------|
| 15       | ---                    | 15         | 1            |

### 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:**

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

- a1. Mention the normal structure and function of the human reproductive system and female pelvis on the macro levels.
- a2. Mention 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 female human reproductive systems.

##### b) **Intellectual Skills**

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

- b1. Link between knowledge for Professional problems solving.

##### c) **Professional and Practical Skills**

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

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

#### d) General and Transferable Skills

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

- d1. Use information technology to serve the development of professional practice
- d2. Assess himself and identify personal learning needs.

### 3. Contents

| Topic   | No. of hours | Lecture   | Practical |
|---|--------------|-----------|-----------|
| Introduction                                  | 2            | 2         |           |
| Anatomy and embryology of the pelvis          | 2            | 2         |           |
| Anatomy of the perineum                       | 2            | 2         |           |
| Anatomy and embryology of the uterus          | 2            | 2         |           |
| Anatomy and embryology of the ovary and tubes | 2            | 2         |           |
| Blood and nerve supply of the pelvis          | 2            | 2         |           |
| Revision                                      | 3            | 3         |           |
| <b>Total</b>                                  | <b>15</b>    | <b>15</b> |           |
| Credit  | 1            | 1         |           |

### 4. Teaching and Learning Methods

- 4.1- Lectures.
- 4.2- Practical lessons.
- 4.3- 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:<br>-Short essay: 40%<br>-structured questions: 25%<br>-MCQs: 20%<br>-Commentary, Problem solving: 15% | - Knowledge<br>- Knowledge<br>- Knowledge, intellectual skills<br>- 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 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)  
Gray's Anatomy for student, 2<sup>nd</sup> edition, 2000

6.2- Recommended Books  
A colored Atlas of Human anatomy and Embryology, 2004.

### **6.3- Periodicals, Web Sites, ... etc**

American J. of Anatomy  
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

**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 Medical Physiology in Master degree in Obstetrics & Gynecology

Sohag University

Faculty of Medicine

1. **Program Title:** Master degree in Obstetrics & Gynecology.
2. Minor element of program
3. Department offering the program: Obstetrics & Gynecology
4. Department offering the course: Medical Physiology.
5. Academic Year/level: 1<sup>st</sup> part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

### A. Basic Information

**Title:** Course Specification of Physiology in Master degree in Obstetrics & Gynecology.

**Code:** PHY 0520-200

**Total hours**

| Lectures | Practical/Surgical | Tutorials/Clinical | Total hour | Credit hours |
|----------|--------------------|--------------------|------------|--------------|
| 30       | --                 | --                 | 30         | 2            |

### B. Professional Information

#### 1. Aims of the course:

To prepare an Ob. & Gyn. Physician oriented with the physiology of endocrines & reproduction. In addition, graduates should have enough **knowledge** about the physiological changes during pregnancy, labor & puerperium. They should have adequate information about the changes that occur in shocked patients & as a result of hemorrhage. The graduates should develop an **attitude** that appreciates the value of the physiological changes in the body of female patients in both health & disease and its implication in the field of OB. & GYN.

#### 2. **Intended learning outcomes (ILOs)**

##### a) **Knowledge and Understanding**

By the end of this course, students should have adequate knowledge about:

- a.1 Mention the physiology of reproduction & endocrines..
- a.2 Mention Physiology of important phenomena in the body that is correlated with obstetric & gynecologic practice as coagulation, pain, control of the arterial blood pressure & changes with hemorrhage and shock.

##### b) **Intellectual Skills**

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

- b1.** Link between knowledge for Professional problems solving.

##### c) **Professional and Practical Skills**

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

c1. Assess methods and tools existing in the area of Obstetrics & Gynecology

**d) General and Transferable Skills**

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

d1. Use different sources to obtain information and knowledge.

d2. Learn himself continuously

**3. Contents**

| <b>Topic</b>                                  | <b>No. of hours</b> | <b>Lecture</b> | <b>Tutorial/<br/>Practical</b> |
|---|---------------------|----------------|--------------------------------|
| ENDOCRINES & REPRODUCTION                     | 6                   | 6              |                                |
| - AUTONOMIC NERVOUS SYSTEM                    | 2                   | 2              |                                |
| BLOOD   |                     |                |                                |
| - Blood coagulation.                          | 2                   | 2              |                                |
| - Regulation of the blood volume              | 1                   | 1              |                                |
| CIRCULATION                                   |                     |                |                                |
| - Vaso-sensory areas                          | 2                   | 2              |                                |
| - Arterial blood pressure                     | 2                   | 2              |                                |
| - Heart rate                                  |                     |                |                                |
| - Cardiac output                              | 2                   | 2              |                                |
| - Hemorrhage                                  | 2                   | 2              |                                |
| - Shock                                       | 2                   | 2              |                                |
| RESPIRATION:                                  |                     |                |                                |
| - Fetal & placental respiration               | 1                   | 1              |                                |
| - Oxygen dissociation curve in mother & fetus | 1                   | 1              |                                |
| - Hypoxia                                     | 2                   | 2              |                                |
| - Cyanosis                                    | 1                   | 1              |                                |
| - CNS   | 2                   | 2              |                                |
| <b>Total</b>                                  | <b>28</b>           | <b>28</b>      |                                |

**4. Teaching and Learning Methods**

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:<br>-Short essay: 40%<br>-structured questions: 25%<br>-MCQs: 20%<br>-Commentary, Problem solving: 15% | - Knowledge<br>- Knowledge<br>- Knowledge, intellectual skills<br>- 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 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)

*Essentials of Medical Physiology*. Author: Sembulingam K, Sembulingam Prema, 2010

### 6.2- Recommended Books

John E. Hall, PhD - *Guyton and Hall Textbook of Medical Physiology, 12<sup>th</sup> edition 2008*.

### 6.3- Periodicals, Web Sites, ... etc

American Journal of Physiology

## 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

**Coordinator: Dr. Hoda Mostafa**

**Head of the department. Dr. Ahmed Mostafa**

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

# Course Specification of Pathology in Master degree in Obstetrics & Gynecology.

**Sohag University**

**Faculty of Medicine**

1. Program Title: Master 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: 1<sup>st</sup> part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

## A. Basic Information

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

**Code:** PAT 0520-200

**Total hours**

| Lectures | practical | Tutorial | Total hour | Credit hours |
|----------|-----------|----------|------------|--------------|
| 30       | -         | -        | 30         | 2            |

## 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. Mention 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.

#### b) Intellectual Skills:

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

b1. Select from different diagnostic alternatives the ones that help 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. Use different sources to obtain information and knowledge.

d2. Develop rules and indicators for assessing the performance of others

**3. Course contents:**

| Topic   | Total | Lectures | Practical |
|---|-------|----------|-----------|
| <b>1- General Pathology:</b>  |       |          |           |
| 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        |           |
| <b>2- Female Genital system:</b>  |       |          |           |
| 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:<br>-Short essay: 40%<br>-structured questions: 25%<br>-MCQs: 20%<br>-Commentary, Problem solving: 15% | - Knowledge<br>- Knowledge<br>- Knowledge, intellectual skills<br>- 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):

Robbins Basic Pathology, 9th edition By Vinay Kumar , 2012

6.2- Recommended Books:

Muir's Textbook of Pathology, Fourteenth Edition (Hodder Arnold Publication)

[David Levison, Robin Reid, Alistair D Burt, David J. Harrison, Stewart Fleming] 2011

6.3- Periodicals,

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.Fatma El Zahraa Salah El deen**

**Head of Department: Dr. Eman Salah El deen**

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

## Course Specification of Community Medicine and public Health in Master degree in Obstetrics & Gynecology.

**Sohag University**

**Faculty of Medicine**

1. Program Title: Master 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: 1<sup>st</sup> part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

### **A. Basic Information**

**Title:** Course Specification of Community Medicine and public Health in Master degree in Obstetrics & Gynecology.

**Code:** COM 0520-200

**Total hours**

| Lectures | practical | Tutorial | Total hour | Credit hours |
|----------|-----------|----------|------------|--------------|
| 30       | -         | -        | 30         | 2            |

### **B. Professional Information**

#### **1. Overall Aims of the Course**

1. To prepare a community-oriented OBS / GYN physician capable of anticipating and responding to feminine health needs within guidelines of the MOHP and according to the policies, regulations, and guidelines of the MOHP.
2. To develop a post-graduate who will apply the knowledge and skills learned, and is able to take leadership in motivating the community served as regard the preventive aspects concerning Maternal and Perinatal Health care.
3. To influence the post-graduate to adopt a healthy lifestyle and sound behaviors to become role models for the female individuals, their families, and the communities they will serve in the future.

#### **2. Intended Learning Outcomes of Course (ILOs)**

##### **a) Knowledge and understanding:**

By the end of the course, the OBS / GYN post-graduate is expected to be able to:

- a1. Enumerate Methods of promoting maternal and fetal health and preventing their illness.

- a2. Mention the mutual influence between professional practice and its impacts on the environment.
- a3. Mention the ethical and legal principles of professional practice in the field of Obstetrics & Gynecology.
- a4. List principles, methodologies, tools and ethics of scientific research.
- a5. Mention the basics and ethics of scientific research.

**b) Intellectual Skills**

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

- b1. Conduct a research study and / or writing a scientific study on a research problem
- b2. Identify gynenecologic and obstetric problems and find solutions.
- b3. Analyze researches and issues related to the Obstetrics & Gynecology.

**c) Professional and Practical Skills:**

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

- c1. Assess methods and tools existing 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. Communicate effectively by all types of effective communication.
- d2. Use information technology to serve the development of professional practice
- d3. Assess himself and identify personal learning needs.

**3. Contents**

| <b>Topic</b>   | <b>No. of hours</b> | <b>Lecture</b> | <b>Tutorial/ Practical</b> |
|--|---------------------|----------------|----------------------------|
| Epidemiology of selected communicable diseases:<br>STDs  | 4                   | 4              |                            |
| Epidemiology and risk factors of non-communicable diseases with pregnancy:<br>Ischemic heart diseases<br>Diabetes Mellitus<br>Cancer   | 4                   | 4              |                            |
| Maternity care<br>Maternal mortality<br>Risk approach  | 14                  | 14             |                            |
| Methodology & statistics<br>Terminology and rationale<br>Data collection<br>Types of Data<br>Tabulation of data<br>Graphical presentation of data<br>Measures of central tendency<br>Measures of dispersion<br>Normal distribution curves<br>International classification of diseases<br>International death certificate<br>Study design:<br>Cross sectional study and the prevalence rate<br>Cohort study, incidence rate, relative & | 8                   | 8              |                            |

|  |           |           |  |
|--|-----------|-----------|--|
| attributable risk<br>Case-control study, Odd's ratio<br>Sampling<br>Investigation of an epidemic, the attack rates |           |           |  |
| <b>Total</b>   | <b>30</b> | <b>30</b> |  |
| <b>Credit</b>  | <b>1</b>  | <b>1</b>  |  |

#### 4. Teaching and Learning Methods

- 4.1- Lectures.
- 4.2- Practical sessions.
- 4.3- 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:<br>-Short essay: 40%<br>-structured questions: 25%<br>-MCQs: 20%<br>-Commentary, Problem solving: 15% | - Knowledge<br>- Knowledge<br>- Knowledge, intellectual skills<br>- 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 written examination | 50  | % |
| 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- 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- Epidemiology in medical practice, 5<sup>th</sup> 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:** 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/Ahmed Fathy Hammed**

**Head of Department: Prof/Eman Abd El-Baset Mohammed**

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

## Course Specification of Medical Microbiology and Immunology in Master degree in Obstetrics & Gynecology.

Sohag University

Faculty of Medicine

1. Program Title: Master 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: 1<sup>st</sup> 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 Microbiology and Immunology in Master degree in Obstetrics & Gynecology.

**Code:** MIC 0520-200

**Total hours**

| Lectures | Practical | Tutorial | Total hour | Credit hours |
|----------|-----------|----------|------------|--------------|
| 30       | -         | -        | 30         | 2            |

### B. Professional Information

#### 1. Overall Aims of the 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 study of Master program in Obstetrics & Gynecology the Graduate should be able to:

- a1. Mention microbiological & immunological basis of gynecologic diseases and obstetric problems and their pathogenesis.
- a2. Enumerate common microbiological and laboratory techniques necessary to establish diagnosis of gynecologic, and obstetric illnesses.

##### b) **Intellectual Skills**

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

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

b2. Link between knowledge for Professional problems solving.

**c) Professional and Practical Skills**

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

c1. Assess methods and tools existing in the area of Obstetrics & Gynecology on microbiological basis

**d) General and Transferable Skills**

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

d1. Use information technology to serve the development of professional practice

d2. Learn himself continuously

**3. Contents**

| Lectures                                 | No. of hours | Lectures                       | No. of hours |
|--|--------------|--------------------------------|--------------|
| General Bacteriology                     |              | Immunology                     |              |
| Bacterial anatomy & Physiology           | 2            | Congenital & Acquired Immunity | 2            |
| Bacterial genetics                       | 2            | Immunological Cells            | 2            |
| Sterilization & Disinfection             | 2            | Hypersensitivity               | 2            |
| Systematic Bacteriology                  |              | Tumor Immunology               | 2            |
| Gram +ve cocci                           | 2            |                                |              |
| Gram -ve cocci                           | 2            | General virology               | 2            |
| Gram +ve bacilli                         | 2            | Systematic Virology            |              |
| Gram -ve bacilli                         | 2            | RNA viruses                    | 2            |
| Mycology                                 |              | DNA viruses                    | 2            |
| Opportunistic mycosis & Antifungal drugs | 2            |                                |              |
| <b>Total hours</b>                       |              |                                | <b>30</b>    |
| <b>Credit</b>                            |              |                                | <b>1</b>     |

**4. Teaching and Learning Methods**

4.1- Lectures.

4.2- Practical sessions.

4.3- 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:<br>-Short essay: 40%<br>-structured questions: 25%<br>-MCQs: 20%<br>-Commentary, Problem solving: 15% | - Knowledge<br>- Knowledge<br>- Knowledge, intellectual skills<br>- 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 written examination | 50  | % |
| 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- Essential Books (Text Books)

*Jawetz, Melnick & Adelberg's Medical Microbiology*. 24th Edition.  
 Reviewed by Muhannad F Al-Kobaisi, 2007.

### 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

<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. Mona Fatoh Mohamed

**Head of Department:** Dr. Abeer M. Shenief

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



## Course Specification of Internal medicine and Pediatrics in Master degree in Obstetrics & Gynecology.

Sohag University

Faculty of Medicine

1. Program Title: Master degree in Obstetrics & Gynecology.
2. Minor element of program
3. Department offering the program: Obstetrics & Gynecology
4. Department offering the course: Internal medicine & Pediatrics
5. Academic Year/level: 1<sup>st</sup> part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

### A. Basic Information

**Title:** Course Specification of Internal medicine & Pediatrics in Master degree in Obstetrics & Gynecology.

**Code:** MED+PED 0520-200

**Total hours**

| Module                         | Lectures | Practical /Surgical | Tutorial | Total hour | Credit hours |
|--------------------------------|----------|---------------------|----------|------------|--------------|
| Internal medicine & Pediatrics | 15       | 30                  | ---      | 45         | 2            |

### B. Professional Information

#### 1. Overall Aims of Course

##### Internal medicine module

By the end of the course of Internal Medicine, the candidate should be able to:

- 1- Deal with common medical conditions on the basis of adequate history taking, physical examination interpretation of relevant supportive investigations and management.
- 2- Deal with acute medical emergencies safely and effectively.
- 3- Identify the indications and logistics of referring patients to higher levels of experience or specialization.
- 4- Perceive and integrate progress in medical technology.

##### Neonatology module :

To prepare an Ob. & Gyn. physician oriented with the examination, evaluation & resuscitation of the newborn . In addition, graduates should have enough knowledge about congenital neonatal infections, tetanus neonatorum, common minor & major congenital anomalies , neonatal injuries & causes of neonatal jaundice. The graduates should develop an attitude that appreciates the value of intensive care unit management of preterm & markedly asphyxiated babies.

#### 2. Intended Learning Outcomes of Course (ILOs):

##### Internal medicine module :

**a) Knowledge and Understanding:**

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

- a1. Mention the basic medical disease related to pregnancy & their management
- a2. Enumerate Methods of promoting maternal health and preventing their illness.

**b) Intellectual Skills**

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

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for medical diseases.

**c) Professional and Practical Skills**

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

- c1. Evaluate medical reports.

**d) General and Transferable Skills**

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

- d1. Use information technology to serve the development of professional practice
- d2. Use different sources to obtain information and knowledge.

**Neonatology module :**

**a- Knowledge and Understanding:**

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

- a.1 Enumerate Methods of promoting fetal health and preventing their illness.
- a2. Describe methods of neonatal resuscitation.
- a3. understand different neonatological problems & their management

**b. -Intellectual Skills**

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

- b.1 Link between knowledge for Professional problems solving.
- b.2 Assess risk in professional practices in the field of Obstetrics..

**c. Professional and Practical Skills**

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

- c.1 Master the basic and modern professional skills in the area of neonatological assesment & rescucitation.

**d. General and Transferable Skills**

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

- d.1 Communicate effectively by all types of effective communication.
- d.2 Use different sources to obtain information and knowledge

**3. Contents**

**Internal medicine module :**

**DETAILED CONTENTS**

**1-Cardiology Teaching**

The cardiology curriculum is designed so that at the end of the course the candidate will be able to:

- 1- Know the principles of cardiovascular anatomy and physiology which are relevant to cardiovascular diseases.
- 2- Know the basic patho-physiological and structural alteration that occur in cardiovascular diseases.
- 3- Know the important causes, presenting features (symptoms, signs and alteration in specific investigations) that may occur in each of the following conditions:
  - Heart failure (acute, chronic, systolic, diastolic)
  - Rheumatic fever, rheumatic heart disease including the affection of the pericardium and cardiac valves.
  - Major congenital heart diseases occurring in older children and in adults such as ASD, VSD, PDA, pulmonary stenosis, aortic stenosis, Fallot's tetralogy, triology, coarctation of the aorta and Eisenmeniger's syndrome
  - Major dysrhythmias especially the followings: sinus tachycardia, bradycardia, atrial fibrillation, ventricular tachycardia, and fibrillation .
  - Causes and management of syncope.
  - Causes features and management of infective endocarditis.
  - Coronary artery diseases (pathogenesis, risk factors, clinical features, complications and detail of both prophylactic and curative treatment)
  - The problem of hypertension in Egypt and the importance of all grades of elevated blood pressure also causes and features of essential and secondary hypertension,, also methods of treatment and the problem attending the use of antihypertensive drugs.
  - The interaction between the lung and the heart and causes Clinical presentation and manegment of pulmonary embolism and cor pulmonale)
  - Elements of management of cardiac patients undergoing surgery, pregnancy, labour and treatment of other general diseases.
  - Properties, uses, and side effects of important cardiovascular drugs used in treatment of common diseases.

**4-Skills:** The graduate should be able to:

- Elicit normal and abnormal cardiovascular signs such as general features, attitude, facies, BP arterial and venous pulse,.....
- Elicit normal and abnormal physical signs in chest and abdominal examination that may cause or accompany or result from cardiac disease such as hepatomegaly, splenomegaly, ascites,.....
- Can perform successfully basic life support and cardiac resuscitation (cardiac message, mouth to mouth breath) either alone or with a team.
- He should be able to interpret normal and abnormal cardiac shadows in chest Xray.
- He should recognize the normal ECG and diagnose the following abnormalities in ECG:
  - Ventricular hypertrophy (Rt, Lt)
  - Atrial dilataion (Rt, Lt)
  - Bundle branch block (Lt, Rt)

- Myocardial infarction
- Major dysrhythmias

**Cardiology teaching (Methodology):**

A combination of strategies are used to reach the above mentioned objects, this include lectures, clinical and self teaching.

**1-Lectures :** lectures are given to accompany the clinical and the practical teaching. They are designed to cover the salient features, difficult aspects, recent advances not usually incorporated in students text books and specific personal practices of the following subjects:

**A-Lectures)**

| <b>Topics</b>   | <b>No of lectures</b> |
|---|-----------------------|
| Cardiovascular Symptoms and signs   |                       |
| Rheumatic fever   | 0.5                   |
| Valvular diseases   | 0.5                   |
| Systemic Hypertension   | 0.5                   |
| Adult Congenital Heart Diseases   |                       |
| <u>Cardiomyopathy:</u><br>-dilated cardiomyopathy (Peripartum cardiomyopathy)                                     |                       |
| <u>Arrhythmias:</u><br>-Sinus tachycardia<br>-sinus bradycardia<br>-AF -VT  | 0.5                   |
| <u>Heart failure</u><br>-Systolic Heart Failure<br>-Diastolic Heart Failure<br>-High cardiac output heart failure | 0.5                   |
| Pulmonary embolism  | 0.5                   |
| <b>Total</b>  | <b>3</b>              |

**B- Practical teaching (cardiology)**

Practical Topics:.

- 1-Cardiovascular history taking
- 2-Cardiac examination (including pulse BP, and Jugular venous pressure comment)
- 3-Cardiac valve lesions
- 4-Rheumatic heart disease
- 5-Infective endocarditis
- 6-Heart failure

7-Cardiomyopathy

8-Adult congenital heart diseases

9-Atrial fibrillation

10-Interpretation of certain ECG abnormalities: Acute myocardial infarction, ischemic heart disease, atrial fibrillation, ventricular tachycardia,....

3-Self teaching: This include:

- Personal or group ward responsibilities including follow up of inpatients in the department.
- Cardiology outpatient sessions in which the student examine the patients with the assistant lecturer to recognize the presenting
- 

## 2-Endocrinology teaching

The curriculum consists of an integrated theoretical, clinical and practical training courses.

Terminal objectives are:

1. To know the principles of the physiology of endocrinal system
2. To know the basic pathophysiological and structural alteration changes that occur in common endocrinal diseases.
3. To know important presenting features of endocrinal diseases
4. To be able to elicit skeletal disproportions and to identify
5. body mass index
6. To diagnose various endocrinal emergencies
7. To know the basics of various investigations of endocrinal diseases
8. To interpret endocrinal imagings such as X-ray , CT and MRI of different endocrinal organs.

### Endocrinology teaching (Methodology)

A combination of strategies are used to reach the above mentioned objectives. This include:

#### A-Lectures

| <b>Topics</b>  | <b>No of lectures</b> |
|--|-----------------------|
| Principles of endocrinology  |                       |
| Disorders of the anterior pituitary and the hypothalamus   | 0.5                   |
| <u>Disorders of the thyroid gland</u><br>Hypothyroidism<br>Hyperthyroidism   | 0.5                   |
| <u>Disorders of the adrenal cortex:</u><br>-Cushing syndrome<br>-Aldosteronism<br>-Adrenogenital syndrome<br>-Clinical uses of corticosteroids | 0.5                   |

|   |          |
|---|----------|
| Pheochromocytoma                        |          |
| Endocrinology of blood pressure control | 0.5      |
| Diabetes mellitus                       | 0.5      |
| Hypoglycemia                            | 0.5      |
| <b>Total</b>                            | <b>3</b> |

### **B-Practical teaching in endocrinology)**

Practical topics:.

- 1-History taking of various endocrinal disorders
- 2-Anthropometric measurements, Body mass index
- 3- Obesity, morbid obesity
- 4-Short stature
- 5-Thyrotoxicosis
- 6-Myxedema
- 7-Cushing syndrome
- 8-Acromegally
- 9-Pheochromocytoma
- 10-Diabetic commas

### 3- Hematology Teaching

The curriculum consists of theoretical practical and training courses.

Terminal objectives in teaching hematology are:

- 1-To know the physiology of blood cells (RBCs, WBCs and platelets. And homeostasis.
- 2-To know the anatomy of the lymphatic and hematopoietic organs.
- 3-To know the important causes, presentation and management of various types of anemias.
- 4-To examine lymph nodes, liver and spleen and to know causes and management of lymphadenopathy, hepatomegaly, and splenomegaly.
- 5-To know causes, manifestation and management of bleeding and coagulation disorders.
- 6-To know causes presentation and management of various hematological malignancies (Leukaemias, lymphomas, plasma cell tumours).
- 7-To interpret lab investigations as blood picture, bone marrow examination, results of lymph node, spleen biopsy,.....and tests for coagulation disorders.
- 8-To know recent advances in treatment of various hematological disorders as bone marrow transplantation, immunological treatment,.....

### **Hematology teaching (Methodology) :**

A combination of strategies are used to reach the above mentioned objectives. This include:

**A- lectures**

| Topics  | No of lectures |
|---|----------------|
| Hematopoiesis   |                |
| Anemias;.<br>-Iron deficiency anemia<br>-Megaloplastic anemia<br>-Hemolytic anemias(Acquired)<br>-Aplastic anemia | 1              |
| Acute leukemias   |                |
| Disorders of platelets and vessel wall<br>"Thrombocytopenia"<br>-Purpura  | 0.5            |
| Anticoagulants  | 0.5            |
| <b>Total</b>  | <b>2</b>       |

**B- Practical hematologTeaching)****Topics:.**

- 1-History taking in hematological disorders
- 2- pallor
- 3- Differential diagnosis of Lymphadenopathy
- 4- differential diagnosis of Hepatosplenomegaly
- 5-Acute leukemias  
leukemias
- 7-Purpura
- 8- Bleeding tendency
- 9-Cases who need blood transfusion (Observation of the technique, and follow up)

**5-Nephrology teaching**

| Topics   | No of lectures |
|--|----------------|
| Structure and function   |                |
| <u>Major clinical syndromes in nephrology:.</u><br>Nephrotic syndrome<br>Acute nephritic syndrome                                | 0.5            |
| <u>Disturbed renal function:.</u><br>Acute renal failure<br>Chronic renal failure<br>Renal dialysis and<br>Renal transplantation | 0.5            |
| Drug induced renal disorders   |                |
| <u>Urinary tract infections:.</u>  | 0.5            |
| Investigations of renal disease  | 0.5            |
| <b>Total</b>   | <b>2</b>       |

**B-Practical nephrology:.**

Topics:

- 1-History taking in renal disorders
- 2- Nephrotic syndrome
- 3-Generalized oedema
- 4-acute nephritis
- 5-Chronic renal failure
- 6-Acute renal failure
- 7- DD of Renal mass

**Neonatology module :**

**LECTURES (5 Hrs)**

- 1-Apgar score (0.5 Hr).**
- 2-Neonatal resuscitation of normal & asphyxiated newborns (1 Hr).**
- 3-Care of premature & postmature newborns ( 0.5 Hr).**
- 4-Birth injuries ( 0.5Hr).**
- 5-Neonatal jaundice (1Hr).**
- 6-Perinatal mortality ( 0.5 Hr).**
- 7-Congenital neonatal infections & tetanus neonatorum (0.5 Hr).**
- 8-Identification of congenital anomalies at birth (0.5 Hr).**

**4. Teaching and Learning Methods**

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

**5. ASSESSMENT SCHEDULE:**

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



### **Weighting of Assessments:**

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

### **6. List of References**

#### **Internal medicine module :**

- 6.1- Essential Books (Text Books)  
- Kumar and Clarke Textbook of Medicine; Parveen Kumar and Richard Clark; Blackwell Science; 14<sup>th</sup> edition, 2007  
- Hutchison's Clinical Methods; Robert Hutchison; Harry Rainy; 21<sup>st</sup> edition; 2003
- 6.2- Recommended Books  
- Cecil Textbook of Medicine; McGraw Hill; 16<sup>th</sup> edition, 2007.  
- Harrison's Textbook of Medicine, McGraw Hill, 2005.
- 6.3- Periodicals, Web Sites, ... etc.  
Pubmed, Cochrane Library.  
British J. Of Internal Medicine

#### **Neonatology module :**

- 6.1- Essential Books (Text Books)**  
Essential Neonatal Medicine, Includes Desktop Edition [Sunil Sinha, Lawrence Miall, Luke Jardine]
- 6.2- Recommended Books**  
Nelson Textbook of Pediatrics, 19th Edition. By Robert M. Kliegman, MD, Bonita M.D. Stanton, MD, Joseph St. Geme, Nina Schor, MD, PhD and Richard E, 2012
- 6.3- Periodicals, Web Sites, ... etc**  
American J. of Neonatology

### **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:**

**Internal medicine module :**Dr: Mervat Mohamed Ahmed Attia  
**Neonatology module : Dr.** Ismail abdelaleem

### **Head of Department:**

**Internal medicine module :** Prof . Hassan Shehata.  
**Neonatology module :** Dr. Mohamed A. Mohamed

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

## Course Specification of General Surgery in Master degree in Obstetrics & Gynecology.

Sohag University

Faculty of Medicine

1. Program Title: Master degree in Obstetrics & Gynecology.
2. Minor element of program
3. Department offering the program: Obstetrics & Gynecology
4. Department offering the course: general surgery.
5. Academic Year/level: 1<sup>st</sup> part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

### A. Basic Information

**Title:** Course Specification of general surgery in Master degree in Obstetrics & Gynecology.

**Code:** SUR 0520-200

#### Total hours

| Lectures | Practical /Surgical | Tutorial | Total hour | Credit hours |
|----------|---------------------|----------|------------|--------------|
| 15       | 30                  | ---      | 45         | 2            |

### B. Professional Information

#### 1. Aims of the course:

To prepare an Ob. & Gyn. physician oriented with the principles of general surgery & able to prepare surgical patients for operative intervention and deal with them in the post-operative period. In addition, graduates should have enough **knowledge** about suture materials, abdominal incisions, acute abdomen & surgical conditions that complicate pregnancy or correlated with gynecological surgery. The graduates should develop an **attitude** that appreciates the value of surgical skills & techniques in the field of OB. & GYN. surgery.

#### 2. Intended Learning Outcomes of Course (ILOs):

##### a) **Knowledge and Understanding:**

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

- a1. General problems, presentations & intra-operative and post-operative complications of the surgical patient. Besides adequate knowledge about the general surgical skills.
- a2. The surgical conditions correlated with pregnancy & those encountered in surgical patients.

##### b) **Intellectual Skills**

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

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for surgical problems.

##### c) **Professional and Practical Skills**

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

c1. Master the basic surgical skills

**d) General and Transferable Skills**

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

d1. Communicate effectively by all types of effective communication.

d2. Use different sources to obtain information and knowledge.

**3. Contents:**

| Topic  | No. of hours | Lecture | Tutorial/ Practical |
|--|--------------|---------|---------------------|
| <b>1. GENERAL PART</b>   | 7.5          | 7.5     | --                  |
| - Hemorrhage   |              | 0.5     |                     |
| - Shock  |              | 0.5     |                     |
| - Anuria   |              | 0.5     |                     |
| - Fluid & electrolytes in surgical patients                            |              | 0.5     |                     |
| - Sutu   |              | 0.5     |                     |
| - Incisions  |              | 0.5     |                     |
| - Blood transfusion & blood substitutes                                |              | 0.5     |                     |
| - Intestinal obstruction   |              | 0.5     |                     |
| - Neonatal intestinal obstruction                                      |              | 0.5     |                     |
| - Acute abdomen  |              | 0.5     |                     |
| - Post-operative chest complications                                   |              | 0.5     |                     |
| Post-operative abdominal complications                                 |              | 0.5     |                     |
| - Post - operative vomiting.   |              | 0.5     |                     |
| - Injuries of intra-abdominal structures                               |              | 0.5     |                     |
| Intra-peritoneal abscess   |              | 0.5     |                     |
| <b>2. SPECIAL PART</b>   | 7.5          | 7.5     |                     |
| - Breast lump & disease  |              | 1       |                     |
| - Thyroid swellings  |              | 0.5     |                     |
| - Hemorrhoids, anal fissure, peri-anal suppuration & rectal prolapse   |              | 0.5     |                     |
| - Varicose veins, DVT & pulmonary embolism                             |              | 0.5     |                     |
| - Colonic & small intestine surgery                                    |              | 0.5     |                     |
| - Hernias ( incisional, femoral, umbilical & para-umbilical hernias,). |              | 1       |                     |
| - Mass in the umbilical region & mass in the right iliac fossa         |              | 0.5     |                     |
| - Peritonitis & hemoperitoneum   |              | 0.5     |                     |

|   |           |                   |           |
|---|-----------|-------------------|-----------|
| - Abdominal trauma<br>- Fecal fistula & ano-rectal fistula<br>- colostomy   |           | 0.5<br>0.5<br>0.5 |           |
| - History taking, conducting clinical examination, diagnosing & suggesting investigations in different surgical patients specially those with breast diseases & goiter, abdominal masses, varicose veins, piles, DVT & hernias AND DISCUSSING THESE CASES WITH STAFF MEMBERS IN DUTY.<br>- -Sharing in pre-operative preparation of surgical patients.<br>- -Observing post-operative patients in the department of surgery & sharing in their management.<br>- -Studying surgical instruments, jars , suture materials & x-rays. | 15        | ---               | 15        |
| <b>SURGICAL</b><br>The candidates should share in surgical lists in the department of surgery as assistants & surgeons, and be trained on performing abdominal incisions, closing the abdominal wound, doing repair of intestinal & bladder injuries & performing appendicectomy.<br>They should be able to identify the ureters & pelvic vessels during pelvic surgery . They should assist in surgeries of the breast, thyroid & hernia repair,   | 15        | ---               | 15        |
| <b>Total</b>  | <b>45</b> | <b>15</b>         | <b>30</b> |
| <b>Total credit hours</b>   | <b>2</b>  | <b>1</b>          | <b>1</b>  |

#### 4. Teaching and Learning Methods

- 1- Lectures.
- 2- Clinical training on patients (clinical round & inpatients).
- 3- Surgical training on surgical wards.
- 2- Practical training on x-rays, instruments, suture materials & jars.

#### 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:<br>-Short essay: 40%<br>-structured questions: 25%<br>-MCQs: 20%<br>-Commentary, Problem solving: 15% | - Knowledge<br>- Knowledge<br>- Knowledge, intellectual skills<br>- Intellectual skills, General transferable skills, |
| 5.3-Structured Oral Exam  | - Knowledge, Intellectual skills, General transferable skills   |
| 5.4-OSCE  | -Practical skills, intellectual skills<br>General transferable skills   |

### Weighting of Assessments:

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

### 6. List of References

6.1- Essential Books (Text Books)

Essentials of General Surgery [Peter F. Lawrence MD, Richard M. Bell MD, Merrill T. Dayton MD, James C. Hebert MD FACS] , 2009

6.2- Recommended Books

Bailey & Love's Short Practice of Surgery 26E (Williams, Bailey and Love's Short Practice of Surgery) [Norman Williams, Christopher Bulstrode, P Ronan). 2011

6.3- Periodicals, Web Sites, ... etc

American J. of general surgery

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

**Course Coordinator: Dr. Nabil Abo El dahab**

**Head of Department Dr. Alaa Elsuity**

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

## **Course Specification of Biostatistics & Computer and Research Methodology in Master degree in Obstetrics & Gynecology.**

**Sohag University**

**Faculty of Medicine**

1. Program Title: Master 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: 1<sup>st</sup> part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

### **A. Basic Information**

**Title:** Course Specification of Bio Statistics & Computer and Research Methodology in Master degree in Obstetrics & Gynecology.

**Code:** COM 0520-200

**Total hours**

| Lectures | Practical | Tutorial | Total hour | Credit hours |
|----------|-----------|----------|------------|--------------|
| 15       | 30        | -        | 45         | 2            |

### **B. Professional Information**

#### **1. Overall Aims of the 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
- 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

#### **2. Intended Learning Outcomes of Course (ILOs)**

##### **a) Knowledge and understanding:**

By the end of the course, the OBS / GYN post-graduate is expected to be able to:

- a1. Describe the principles and fundamentals of quality in professional practice in the field of Obstetrics & Gynecology.
- a2. List the basics and ethics of scientific research.

##### **b) Intellectual Skills**

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

b1. Conduct a research study and / or writing a scientific study on a research problem.

b2. Analyze researches and issues related to the Obstetrics & Gynecology.

**c) Professional and Practical Skills:**

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

c1. Assess methods and tools existing 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 information technology to serve the development of professional practice.

d2. Use different sources to obtain information and knowledge.

**3. Contents**

| Topic   | Lecture   | Tutorial/<br>Practical |
|---|-----------|------------------------|
| collection, analysis and interpretation of data                     | 2         |                        |
| Tests of significance:  |           |                        |
| Proportion test   | 1.5       | 3                      |
| Chi-square test   | 1         | 3                      |
| Student T test  | 1         | 3                      |
| Paired T test   | 1         | 3                      |
| - parametric and non parametric tests                               | 1         | 3                      |
| Epidemiological studies (case control, cohort and cross sectional ) | 2         | 3                      |
| Bias and errors   | 1         | 3                      |
| Setting a hypothesis  | 1         | 3                      |
| Screening   | 1         | 2                      |
| - Evidence – based Medicine:  | 1.5       | 2                      |
| Formulation of papers   | 1         | 2                      |
| <b>Total hours</b>  | <b>15</b> | <b>30</b>              |
| <b>Total Credit hours</b>   | <b>1</b>  | <b>1</b>               |

**4. Teaching and Learning Methods**

4.1- Lectures.

4.2- Practical sessions.

4.3- 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:<br>-Short essay: 40%<br>-structured questions: 25%<br>-MCQs: 20%<br>-Commentary, Problem solving: 15% | - Knowledge<br>- Knowledge<br>- Knowledge, intellectual skills<br>- 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 written examination | 50  | % |
| 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**

6.2- Essential Books (Text Books)

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

6.3- Recommended Books

1- Short Textbook of preventive and social Medicine. Prentice-Hall International Inc.

2- Epidemiology in medical practice, 5<sup>th</sup> 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:** 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/Ahmed Fathy Hammed**

**Head of Department: Prof/Eman Abd El-Baset Mohammed**

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



## Course Specification of Obstetrics , Gynecology and family planning for Master degree in Obstetrics & Gynecology.

**Sohag University**

**Faculty of Medicine**

1. Program Title: Master 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: 2<sup>nd</sup> part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

### **A. Basic Information**

**Title:** Course Specification of Obstetrics , gynecology and family planning for Master degree in Obstetrics & Gynecology.

**Code: OBS 0520-200**

**Total hours**

| <b>Module</b>   | <b>lectures</b> | <b>practical</b> | <b>Tutorial</b> | <b>Total hour</b> | <b>Credit hours</b> |
|-----------------|-----------------|------------------|-----------------|-------------------|---------------------|
| Obstetrics      | 90              | 120              | --              | 210               | 10                  |
| Gynecology      | 90              | 120              | --              | 210               | 10                  |
| Family planning | 30              | 60               | --              | 90                | 4                   |

### **B. Professional Information**

#### **1. Program Aims:**

##### **Obstetrics module :**

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.
- 5- Upgrading research interest and abilities.

##### **Gynecology module :**

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.

### **Family planning module :**

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)**

### **Obstetrics module :**

#### **a) Knowledge and Understanding:**

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

- a1. Mention the causation of Obstetric 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 Obstetric illnesses.
- a4. Enumerate the common diagnostic and laboratory techniques necessary to establish diagnosis of Obstetric illnesses.
- a5. Describe the various therapeutic methods/alternatives used for Obstetric diseases.
- a6. Mention scientific developments in the field of Obstetrics.

#### **b) Intellectual Skills**

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

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for Obstetrics problems.
- b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for Obstetrics problems.

- b3. Link between knowledge for Professional problems solving.
- b4. Conduct a research study and / or writing a scientific study on a research problem.
- b5. Assess risk in professional practices in the field of Obstetrics.
- b6. Plan to improve the performance in the field of Obstetrics.
- b7. Identify gynecological problems and find solutions for them.
- b8. Analyze researches and issues related to the Obstetrics.

**c) Professional and Practical Skills**

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

- c1. Master the basic and modern professional skills in the area of Obstetrics.
- c2. Write and evaluate medical reports.
- c3. Assess methods and tools existing in the area of Obstetrics

**d) General and Transferable Skills**

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

- d.1 Communicate effectively by all types of effective communication.
- d.2 Assess himself and identify personal learning needs.
- d.3 Use different sources to obtain information and knowledge.
- d.4 Develop rules and indicators for assessing the performance of others.
- d.5 Work in a team, and team's leadership in various professional contexts.
- d.6 Manage time efficiently.
- d.7 Learn himself continuously

**Gynecology module :**

**a) Knowledge and Understanding:**

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

- a1. Mention the causation of gynecologic diseases and their pathogenesis.
- a2. List the clinical picture and differential diagnosis of gynecologic illnesses.
- a3. Enumerate the common diagnostic and laboratory techniques necessary to establish diagnosis of gynecologic illnesses.
- a4. Describe the various therapeutic methods/alternatives used for gynecologic diseases.
- a5. Mention scientific developments in the field of Obstetrics & Gynecology

**b) Intellectual Skills**

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

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for gynecologic problems.
- b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for gynecologic problems.
- b3. Link between knowledge for Professional problems solving.
- b4. Conduct a research study and / or writing a scientific study on a research problem.
- b5. Assess risk in professional practices in the field of Gynecology.
- b6. Plan to improve the performance in the field of Gynecology.
- b7. Identify gynecological problems and find solutions for them.
- b8. Analyze researches and issues related to the Gynecology

**c) Professional and Practical Skills**

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

- c1. Master the basic and modern professional skills in the area of Gynecology.
- c2. Write and evaluate medical reports.
- c3. Assess methods and tools existing in the area of Gynecology

**d) General and Transferable Skills**

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

- d1. Communicate effectively by all types of effective communication.
- d2. Assess himself and identify personal learning needs.
- d3. Use different sources to obtain information and knowledge.
- d4. Develop rules and indicators for assessing the performance of others.
- d5. Work in a team, and team's leadership in various professional contexts.
- d6. Manage time efficiently.
- d7. Learn himself continuously

**Family planning module :**

**a) Knowledge and Understanding:**

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

- a1. Describe the structure, mechanism of action, advantages, disadvantages, side effects and complications of the different family planning methods.

**b) Intellectual Skills**

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

- b1. Link between knowledge for Professional problems solving.
- b2. Conduct a research study and / or writing a scientific study on a research problem.
- b3. Assess risk in professional practices in the field of Family planning.
- b4. Plan to improve the performance in the field of Family planning.
- b5. Analyze researches and issues related to the Family planning.

**c) Professional and Practical Skills**

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

- c1. c.1 Master the basic and modern professional skills in the area of Family planning.
- c2. c.2 Assess methods and tools existing in the area of Family planning.

**d) General and Transferable Skills**

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

- d1. Communicate effectively by all types of effective communication.
- d2. Assess himself and identify personal learning needs.
- d3. Use different sources to obtain information and knowledge.
- d4. Work in a team, and team's leadership in various professional contexts.
- d5. Manage time efficiently.
- d6. Learn himself continuously

**3. Contents/Curriculum**

**Obstetrics module :**

| Topics | No. Of Hours |
|--------|--------------|
|        |              |

|  |   |
|--|---|
| - Fertilization, implantation, and early development of the fetus, placenta, cord. | 1 |
| - Placental function, abnormalities of placenta.                                   | 2 |
| - Formation and function of liquor amni, foetal circulation.                       | 1 |
| - Physiology of pregnancy.   | 2 |
| - Diagnosis of pregnancy.  | 2 |
| - Antenatal care.  | 2 |
| - Hyperemesis gravidarum, Pyelitis with pregnancy.                                 | 2 |
| - Abortion.  | 2 |
| - Ectopic pregnancy.   | 2 |
| - Hydatidiform mole.   | 2 |
| - Hypertensive disorders during pregnancy.   | 4 |
| - Placenta praevia.  | 1 |
| - Accidental haemorrhage   | 1 |
| - Diabetes with pregnancy.   | 3 |
| - Anaemias with pregnancy.   | 2 |
| - High-risk pregnancy.   | 1 |
| - Polyhydramnios, oligohydramnios.   | 2 |
| - Foetal growth and its disorders.   | 1 |
| - Rh isoimmunization.  | 2 |
| - Common foetal anomalies.   | 2 |
| - Placental insufficiency. Antepartum assessment of foetal well-being.             | 2 |
| - Anatomy of female bony pelvis, anatomy of foetal skull.                          | 2 |
| - Physiology of normal labour.   | 1 |
| - Mechanism of normal labour.  | 1 |
| - Management of normal labour.   | 2 |
| - Analgesia, anaesthesia in obstetrics.  | 2 |
| - Occipito-posterior position.   | 1 |
| - Face and brow presentation.  | 1 |
| - Breech presentation.   | 2 |
| - Shoulder & complex presentation.   | 2 |
| - Cord presentation and prolapse.  | 1 |
| - Multiple pregnancy.  | 2 |
| - Abnormal uterine action.   | 1 |
| - Contracted pelvis, cephalopelvic disproportion.                                  | 2 |
| - Soft tissue dystocia.  | 1 |
| - Obstructed labour.   | 2 |
| - Rupture uterus.  | 2 |
| - Lower genital tract injuries during labour.                                      | 2 |
| - Postpartum haemorrhage.  | 3 |
| - Other third stage complications.   | 1 |
| <b>-FOETUS-NEONATE:</b>  |   |
| - Foetal birth injuries.   | 1 |

|   |            |
|---|------------|
| - Neonatal asphyxia.                                    | <b>1</b>   |
| - Post-term pregnancy.                                  | <b>1</b>   |
| - Preterm labour and prematurity.                       | <b>2</b>   |
| - I.U.F.D.  | <b>2</b>   |
| - Normal puerperium.                                    | <b>1</b>   |
| - Puerperal sepsis, pyrexia.                            | <b>2</b>   |
| - Induction of labour.                                  | <b>2</b>   |
| - Instrumental deliveries in modern obstetric practice. | <b>2</b>   |
| - Cesarean section.                                     | <b>2</b>   |
| 9-ULTRASOUND IN OBSTETRICS:                             | <b>2</b>   |
| 10- MATERNAL AND PERINATAL MORTALITY.                   | <b>2</b>   |
| Total   | <b>105</b> |

**Gynecology module :**

| <b>Topics</b>  | <b>No. Of Hours</b> |
|--|---------------------|
| - Physiology of menstruation.                        | <b>2</b>            |
| - Puberty.   | <b>2</b>            |
| - Menopause.   | <b>3</b>            |
| - Dysmenorrhea and premenstrual syndrome             | <b>2</b>            |
| - Amenorrhea.  | <b>4</b>            |
| - Ovulation and its disorders.                       | <b>4</b>            |
| - Abnormal bleeding from the genital tract.          | <b>4</b>            |
| - Human sexuality and female sexual dysfunction.     | <b>2</b>            |
| - Infertility.                                       | <b>8</b>            |
| <b>REPRODUCTIVE TRACT INFECTIONS:</b>                |                     |
| - Sexually transmitted diseases.                     | <b>2</b>            |
| - Pelvic inflammatory disease.                       | <b>3</b>            |
| - Lower genital tract infections.                    | <b>2</b>            |
| - Genital prolapse-R.V.F.                            | <b>5</b>            |
| - Genito-urinary fistula and stress incontinence.    | <b>4</b>            |
| - Old complete perineal tear & rectovaginal fistula. | <b>3</b>            |
| 5-UTERINE FIBROIDS.                                  | <b>6</b>            |
| 6-ENDOMETRIOSIS AND ADENOMYOSIS.                     | <b>4</b>            |
| <b>GYNECOLOGIC ONCOLOGY:</b>                         |                     |
| - Benign swelling of the vulva and cancer vulva.     | <b>3</b>            |
| - Benign swelling of the vagina & cancer vagina.     | <b>2</b>            |
| - Cervical carcinoma.                                | <b>6</b>            |

|   |     |
|---|-----|
| - Cancer body.                              | 4   |
| - Ovarian tumours.                          | 6   |
| - Choriocarcinoma.                          | 4   |
| 9-BREAST FOR THE GYNECOLOGIST:              | 2   |
| 10-IMAGING IN GYNECOLOGY:                   | 4   |
| 11-OPERATIVE GYNECOLOG, INCLUDING ENDOSCOPY | 7   |
| Total                                       | 105 |

**Family planning module :**

| Lectures                     | Total hour |
|------------------------------|------------|
| Introduction                 | 2          |
| IUCD                         | 4          |
| Injectable Contraceptive     | 4          |
| Combined oral contraceptive. | 4          |
| Progesteron only pills       | 2          |
| Sebdermal limplants          | 4          |
| Emergency contraceptive      | 4          |
| Barrier methods.             | 2          |
| - Natural methods            | 2          |
| Male contraception           | 2          |
| Total                        | 30         |

**4. Teaching & Learning methods.**

Lectures.

Clinical lessons

Surgical lessons

Assignment

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:<br>-Short essay: 40%<br>-structured questions: 25%<br>-MCQs: 20%<br>-Commentary, Problem solving: 15% | - Knowledge<br>- Knowledge<br>- Knowledge, intellectual skills<br>- Intellectual skills, General transferable skills, |
| 5.4-Structured Oral Exam  | - Knowledge, Intellectual skills, General   |

|                |   |
|----------------|---|
|                | transferable skills   |
| 5.5-OSCE       | -Practical skills, intellectual skills<br>General transferable skills |
| 5.6 assignment | -General transferable skills, intellectual skills                     |

- 1- Assessment 1: written examination week 24
- 2- Assessment 2: oral examination week 24
- 3- Assessment 3: OSCE week 24
- 4- Assessment of attendance & absenteeism throughout the course

### Weighting of Assessments

|                                |      |
|--------------------------------|------|
| Final-term written examination | 50%  |
| Oral Examination               | 30%  |
| OSCE                           | 30%  |
| Total                          | 100% |

Formative only assessments: attendance and absenteeism, assignment, Log book

## 6. List of References

### 6.1- Essential Books (Text Books)

- Berek and *Novak's Gynecology* [Jonathan S. Berek MD MMS], 2011
- **Williams Obstetrics**: 23rd Edition [F. Cunningham, Kenneth Leveno, Steven Bloom, John Hauth, Dwight Rouse, Catherine Spong].

### 6.2- Recommended Books

- Hacker & Moore's *Essentials of Obstetrics and Gynecology (Essentials of Obstetrics & Gynecology (Hacker))* - Kindle edition by Neville F. Hacker, Joseph C.
- 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**

**Coordinator. Prof. Moustafa Abd-Elkhalek**

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