



COURSE SPECIFICATION

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course.	Postgraduate degree MSc of Obstetrics and Gynecology
(2) Department offering the course.	Obstetrics and Gynecology
(3) Department responsible for teaching the course.	Obstetrics and Gynecology
(4) Part of the programme.	Second part
(5) Date of approval by the Department's council	27/7/2016
(6) Date of last approval of programme specification by Faculty council	
(7) Course title.	Endoscopy for infertility
(8) Course code.	GYN 521 EI
(9) Total teaching hours.	15 hours
(10) Credit hours	1

(B) Professional information

(1) Course Aims:

The broad aims of the course are to adequately prepare gynecologist in the art of minimal access surgery and correct the imbalance between the requirements and availability in the society. Specifically, this course will adequately prepare residents and gynecologists for the use of minimally invasive surgery in their practice. The candidate should acquire the scientific knowledge and skills that enables them to engage in endoscopic medical education and scientific medical research.

(2) Intended Learning Outcomes (ILOs):

On successful completion of the program, the candidate will be able to:

A- Knowledge and Understanding

- A.1-** Understand and perform Endogynecological procedures in appropriate situation.
- A.2-** Value endogynecological surgery as an essential part of gynecological surgery armamentarium.
- A.3-** Demonstrate teaching, research and auditing capabilities in endogynecology.

B- Intellectual skills

- B.1-** Master the tactile sensation, altered hand and eye co-ordination due to the length and design of instruments and the absence of three dimensional depth perception due to two dimensional representation of the three dimensional abdominal cavity.
- B.2-** Describe specialized endoscopic equipments and instrumentation.
- B.3-** Identify the principles of Endoscopic and Hysteroscopic procedures.
- B.4-** List the indications, contra-indications and limitations of MAS and various procedures.
- B.5-** Perform abdominal insufflation using Veress needle and Hasan's open technique
- B.6-** Apply Endoscopic procedures on live animal models in the purposeful, wet laboratory.

(4) Curriculum structure and contents:

4.a- Duration of the programme (in years or months): 30 month

(3) Course content.

Subjects	Lectures
<p><u>A. General Principles:</u></p> <ol style="list-style-type: none"> 1. Equipment set up and trouble shooting 2. Patient preparation 3. Anesthesia and Monitoring 4. Access to abdomen 5. Creating pneumoperitoneum 6. Abdominal wall lift devices 7. Principles of Endoscopic haemostasis 8. Principles of Electosurgery 9. Hysteroscopic entry techniques 10. Hysteroscopic operative techniques 	2
<p><u>B.SETTING UP OF A LAPAROSCOPIC UNIT:</u></p> <ol style="list-style-type: none"> 1. Room layout and equipment position 	1
<p><u>2.the basic instruments needed for setting up the unit</u></p>	1
<p>c. VESSEL SEALING SYSTEMS</p>	2
<p>D. TROUBLE SHOOTING:</p> <ol style="list-style-type: none"> 1. Cause of Poor insufflations 2. Reason for excessive pressure for insufflation 3. Reasons for inadequate lighting 4. Reasons for too bright lighting 5. Reasons for loss of picture on monitors 6. Reasons for poor quality pictures /fogging / haze 	2

<p>7. Reasons for flickering electrical interference</p> <p>8. Reasons for inadequate cauterization/inadequate irrigation and suction</p>	
<p>E. Basic modules for MAS in Gynecology</p> <ul style="list-style-type: none"> ▪ Diagnostic Laparoscopy ▪ Laparoscopic PCOS Puncturing ▪ Laparoscopic Infertility study/Tubal Perturbation ▪ Laparoscopic Adhesiolysis ▪ Laparoscopic Oophorectomy ▪ Ectopic Pregnancy Management ▪ Salpingostomy ▪ Bilateral Tubal Sterilization 	2
<p>F. Advanced module in MAS in Gynecology</p> <ul style="list-style-type: none"> • Total Laparoscopic Hysterectomy • Laparoscopic Assisted Vaginal Hysterectomy • Prolapse uterus – uteropexy • For urinary stress incontinence – Bladder Neck suspension •Laparoscopic pelvic floor repair and incontinence procedures <ol style="list-style-type: none"> 1. Laparoscopic colposuspension 2. Laparoscopic repair of Enterocele and pelvic floor support procedure <ul style="list-style-type: none"> • Reversal of sterilisation (Tuboplasty) • Salpingostomy and fimbrioplasty • Laparoscopic fertility promoting procedures • Falloposcopy and other tubal cannulation techniques • Ovarian surgery • Ovarian torsion • Ovarian Endometriomas • Polycystic Ovaries / Surgical Management • Lap. management of Tubo-Ovarian Abscess 	2
<p>G. Hysteroscopic surgery :-</p> <ul style="list-style-type: none"> • Initiating a Hysteroscopic program and Hysteroscopic instrumentation • Diagnostic Hysteroscopy – Technique and documentation • Distention media and fluid systems 	2

<ul style="list-style-type: none">• Hysteroscopic resection of fibroids• Hysteroscopic metroplasty• Endometric ablation technique	
WET LAB prerequisites	1

Course Title/Code	Programme ILOs								
	A1	A2	A3	B1	B2	B3	B4	B5	B6
Equipment set up and trouble shooting	x								
Patient preparation	x								
Anesthesia and Monitoring	x								
Access to abdomen	x								
Creating pneumoperitoneum	x								
Abdominal wall lift devices	x								
Principles of Endoscopic haemostasis	x								
Principles of Electrosurgery	x								
Hysteroscopic entry techniques	x			x					
Hysteroscopic operative techniques	x			x					
Room layout and equipment position	x			x					
the basic instruments needed for setting up the unit	x			x					
Vessel Sealing Systems	x								
Cause of Poor insufflations	x								
Reason for excessive pressure for insufflation	x								
Reasons for inadequate lighting	x								
Reasons for too bright lighting	x								
Reasons for loss of picture on monitors	x								
Reasons for poor quality pictures /fogging / haze	x								
Reasons for flickering electrical interference	x								
Reasons for inadequate cauterization/inadequate irrigation and suction	x	x		x	x	x	x	x	
1. Diagnostic Laparoscopy	x	x		x	x	x	x	x	
2. Laparoscopic PCOS Puncturing	x	x		x	x	x	x	x	

Course Title/Code	Programme ILOs								
	A1	A2	A3	B1	B2	B3	B4	B5	B6
3. Laparoscopic Infertility study/Tubal Perturbation	x	x		x	x	x	x	x	
4. Laparoscopic Adhesiolysis	x	x		x	x	x	x	x	
5. Laparoscopic Oophorectomy	x	x		x	x	x	x	x	
6. Ectopic Pregnancy Management	x	x		x	x	x	x	x	
7. Salpingostomy	x	x		x	x	x	x	x	
8. Bilateral Tubal Sterilization	x	x		x	x	x	x	x	
Total Laparoscopic Hysterectomy	x	x	x	x	x	x	x	x	
Laparoscopic Assisted Vaginal Hysterectomy	x	x	x	x	x	x	x	x	
Prolapse uterus – uteropexy	x	x	x	x	x	x	x	x	
For urinary stress incontinence – Bladder Neck suspension	x	x	x	x	x	x	x	x	
Laparoscopic pelvic floor repair and incontinence procedures :	x	x	x	x	x	x	x	x	
1. Laparoscopic colposuspension									
2. Laparoscopic repair of Enterocele and pelvic floor support procedure	x	x	x	x	x	x	x	x	
Reversal of sterilisation (Tuboplasty)	x	x	x	x	x	x	x	x	
Salpingostomy and fimbrioplasty	x	x	x	x	x	x	x	x	
Laparoscopic fertility promoting procedures	x	x	x	x	x	x	x	x	
Fallopscopy and other tubal cannulation techniques	x	x	x	x	x	x	x	x	
Ovarian surgery	x	x	x	x	x	x	x	x	
Ovarian torsion	x	x	x	x	x	x	x	x	
Ovarian Endometriomas	x	x	x	x	x	x	x	x	
Polycystic Ovaries / Surgical Management	x	x	x	x	x	x	x	x	
Lap. management of Tubo-Ovarian Abscess	x	x	x	x	x	x	x	x	
Initiating a Hysteroscopic program and Hysteroscopic instrumentation	x	x	x	x	x	x	x	x	

Course Title/Code	Programme ILOs									
	A1	A2	A3	B1	B2	B3	B4	B5	B6	
Diagnostic Hysteroscopy – Technique and documentation	x	x	x	x	x	x	x	x	x	
Distention media and fluid systems	x	x	x	x	x	x	x	x	x	
Hysteroscopic resection of fibroids	x	x	x	x	x	x	x	x	x	
Hysteroscopic metroplasty	x	x	x	x	x	x	x	x	x	
Endometric ablation technique	x	x	x	x	x	x	x	x	x	
WET LAB prerequisites	x	x	x	x	x	x	x	x	x	x

(4) Teaching methods:

- **4.1: Lectures**
- **4.2: Seminars**
- **4.3: Outpatient clinics**
- **4.4: Inpatient cases discussions**
- **4.5: Operative theater**
- **4.6: Specialized clinics**
- **4.7: Conferences/ CME (continuous medical education) / Live workshops**

(5) Assessment methods:

1. Logbook:
2. Written exam: 50 marks including 20% MCQ (40 written – 10 MCQ)

(6) References of the course:

1. Endoscopic Surgery for Gynecologists : By Chris Sutton & Michal Diamond
2. Diagnostic and Operative Hysteroscopy : By Tirso Perez – Medina
Enrique Cayuela Font - Victor Gouel
3. Tubal Infertility : By IVO Brosens - Alan Gordon
4. Atlas of Gynecological Endoscopy : By Dr. Nutan Jain
5. Atlas of Endoscopic Techniques in Gynecology : By Jeffrey.M. Goldberg &
Tommaso Faclone
6. Atlas of Gynecological Endoscopy : By Alan.G.Gordon - B.Victor Lewis
Alan.H.Decher

Course coordinator:

Dr. Rafik Barakat
Dr. Sara Abdel Aziz

Head of the department:

Prof. Nasser Allakany

Date : 8/2016