



COURSE SPECIFICATION

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course.	Postgraduate Master degree of Obstetrics and Gynecology GYN 521 UOG
(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	
(6) Date of last approval of programme specification by Faculty council	24/8/2016
(7) Course title.	Ultrasound in obstetrics and gynecology
(8) Course code.	GYN 521 UOG
(9) Total teaching hours.	15 hours
(10) Credit hours	1

(B) Professional information

(1) Course Aims:

- The broad aims of the course are to assist Sonographers in obtaining their OBGYN ultrasound certification.
- To provide a complete review of the necessary information a Sonographer should have mastered in order to obtain and maintain their OB GYN certification.
- To provide Sonographers with a review course that can be easily revised as the field changes.
- To provide experienced Sonographers with a comprehensive review of the current information in their field of practice for continuing their Sonography education

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

- A.1-** Identify normal female pelvic anatomy
- A.2-** Describe the stages in the menstrual cycle and involved organs
- A.3-** Identify congenital anomalies of the female pelvic organs
- A.4-** List and describe benign and malignant findings in the uterus and ovaries
- A.5-** Describe the process of fertilization and implantation, including normal findings on physical exam and ultrasound evaluation
- A.6-** Define the components of a first trimester, second trimester and 3rd trimester ultrasound exam
- A.7-** Identify normal fetal anatomy and biometry in all three trimesters
- A.8-** Differentiate normal and abnormal placental findings
- A.9-** Identify fetal anomalies of head, face, neck, spine, chest, umbilical cord, GI tract, GU tract, cardiovascular system and extremities
- A.10-** List and describe fetal anomalies associated with chromosomal anomalies
- A.11-** Describe the normal and abnormal findings related to multiple gestations
- A.12-** Identify normal and abnormal Doppler flow patterns in the pregnant and non-pregnant uterus
- A.13-** List and describe maternal health issues affecting pregnancy and delivery
- A.14-** Define several invasive and non-invasive methods of evaluating fetal well-being during pregnancy

B- Intellectual skills

- B.1-** Identify the principles of ultrasound in Obstetrics and gynecology practice.
- B.2-** List the indications, contra-indications and limitations of ultrasound various procedures in the field of obstetric and gynecology.
- B.3-** Perform minimally invasive ultrasound procedures (amniocentesis)
- B.4-** Apply hands on training of ultrasound procedures in the purposeful of getting the feel and master the techniques.

(4) Curriculum structure and contents:

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

(3) Course content.

Subjects	Lectures
General Information and Embryology	1
Normal Pelvic Structures	1
Abnormalities of the Uterus and Ovaries	1
1 st Trimester Assessment	1
2nd Trimester Assessment	2
3rd Trimester Assessment	2
Fetal and Maternal Doppler	
Fetal safety	1
Fetal Anomalies are separated into categories relating to location	1
Tansvaginal ultrasound in obstetric and gynecology	2
Hands on training sessions	2
Current topics in the field	1

Course Title/Code	Programme ILOs																		
	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	B1	B2	B3	B4	
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General Information and Embryology	x	x	x	x	x	x	x	x	x	x	x			x	x	x	x	x	
Normal Pelvic Structures	x	x	x	x	x	x	x	x	x	x	x			x	x	x	x	x	
Abnormalities of the Uterus and Ovaries	x	x	x							x	x			x	x	x	x	x	
1 st Trimester Assessment	x	x	x							x	x			x	x	x	x	x	
2nd Trimester Assessment	x	x	x							x	x			x	x	x	x	x	
3rd Trimester Assessment	x	x	x							x	x				x	x	x	x	
Fetal and Maternal Doppler	x	x	x							x	x	x	x		x	x	x	x	
Fetal safety	x	x	x							x	x	x	x		x	x	x	x	
Fetal Anomalies are separated into categories relating to location	x	x	x							x	x	x	x		x	x	x	x	
Tansvaginal ultrasound in obstetric and gynecology	x	x	x							x		x	x		x	x	x	x	
Hands on training sessions	x	x	x							x		x	x		x	x	x	x	
Current topics in the field	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 discussions**
- **4.5: Operative theater**
- **4.6: Specialized clinics**

(5) Assessment methods:

Log book :

Written exam : 50 marks including 20% MCQ (40 written – 10 MCQ)

(6) References of the course:

1. American Registry of Diagnostic Medical Sonographers.
2. Textbook of diagnostic ultrasonography (6th ed.)
3. Benacerraf, B. R. (2007). Ultrasound of fetal syndromes (2nd ed.)
4. Bluth, E. I. (2008). Ultrasound: a practical approach to clinical problems (2nd ed.).
5. Callen, P. W. (2007). Ultrasonography in obstetrics and gynecology (5th ed.).
6. Chudleigh, P., & Thilaganathan, B. (2004). Obstetric ultrasound how, why, and when (3rd ed.).
7. Doubilet, P. M., & Benson, C. B. (2003). Atlas of ultrasound in obstetrics and gynecology
8. Edelman, S. K. (2005). Understanding ultrasound physics (3rd ed.).
9. Stephenson, S. R. (2012). Diagnostic medical sonography obstetrics and Gynecology (3rd ed.).
10. Todros T, Capuzzo E, Gaglioti P. Prenatal diagnosis of congenital anomalies. Images Paediatr Cardiol 2001
11. Balladeni et al 2010 Ultrasound screening of fetal congenital anomalies

Course coordinator:

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Dr. Sara Abdel Aziz

Head of the department:

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Date : 8/2016