

One Year Post Graduate Diploma In Medical Diagnostic Ultrasound

General Track



One Year Post Graduate Diploma In Medical Diagnostic Ultrasound (General Track)

Weekly Planner

Semester 1			
Course Name: Sonography Principles & Instrumentation			
	Course Director: Associate Prof. Dr. Raham Bacha (PhD)		
	Course Code: PGDG-7101		
	Teaching Faculty		
	Prof. Dr. Syed Amir Gilani (PhD)		
Associate Prof. Dr. Raham Bacha (PhD)			
Week	Course Content		
Week 1	Introduction to SPI (1)		
Week 2	Common Artifacts (2)		
Week 3	Sound Waves (2)		
Week 4	Resolution (1)		
Week 5	Image Processing (2)		
Week 6	Transducer (2)		
Week 7	Image Depth, Gain and focusing (2)		
Week 8	Mid Term		
Week 9	Dynamic Range (2)		
Week 10	Bio-Effects (2)		
Week 11	Color Doppler Physics (1)		
Week 12	CWD (2)		
Week 13	Tissue Harmonics(2)		
Week 14	Spectral Doppler (2)		
Week 15	Ultrasound Contrast Agents (1)		
Week 16	Final Exam		

	Semester 1		
	Course Name: Applied Anatomy & Pathology		
	Course Director: Associate Prof. Dr. Raham Bacha (PhD)		
	Course Code: PGDG-7102		
	Teaching Faculty		
	1: Associate Prof. Dr. Raham Bacha (PhD)		
	Associate Prof. Dr. Khadija tul Sughra (PhD)		
	3: Asst. Prof. Dr Muhammad Yousaf		
Week	Course Content		
Week 1	Applied anatomy of upper limb-I (3)		
Week 2	Applied anatomy of lower limb-I (3)		
Week 3	Neck applied anatomy (1)		
Week 4	Applied Anatomy of upper Abdomen-I (2)		
Week 5	Applied Anatomy of lower Abdomen-I (2)		
Week 6	Cardiac applied anatomy (1)		
Week 7	Vascular applied anatomy of Limbs-I (1)		
Week 8	Mid Term		
Week 9	Applied anatomy of peripheral nerves-I (1)		
Week 10	Vascular applied anatomy of Abdomen -I (3)		
Week 11	Male genitourinary system anatomy-I (3)		
Week 12	Female genitourinary system anatomy-I (2)		
Week 13	Quiz 2		
Week 14	Applied pathology of upper limb (2)		
Week 15	Applied pathology of Abdomen (2)		
Week 16	Final Exam		

	Semester 1		
	Course Name: Gynecological Ultrasound		
Course Director: Associate Prof. Dr. Khadija tul Sughra (PhD)			
Course Code: PGDG-7103			
Teaching Faculty			
	Prof. Dr. Syed Amir Gilani (PhD)		
	Associate Prof. Dr. Khadija tul Sughra (PhD)		
	3: Associate Prof. Dr. Ahmed Abdel Rahim (PhD)		
Week	Content		
Week 1	Anatomy and pathology of uterus-I (3)		
Week 2	Sonography of uterus (2)		
Week 3	Ultrasound for Uterine pathologies (3)		
Week 4	Transvaginal Ultrasound-I (3)		
Week 5	Ultrasound of Ovaries-I (3)		
Week 6	Gynecological Emergency-II (3) + Quiz		
Week 7	Ultrasound in pelvic inflammatory diseases (1)		
Week 8	Mid Term		
Week 9	Ultrasound Guided Interventional Procedures in Gynae (2)		
Week 10	Acquired abnormalities of the cervix (2)		
Week 11	Color doppler in gynecology (2) +Quiz		
Week 12	Advances in Gynecological ultrasound (2)		
	Ultrasound in menopause (1) + Ultrasound for abnormalities of		
Week 13	endometrium (3)		
Week 14	Pediatric gynecological ultrasound (1)		
Week 15	Report Writing in Gynecological Ultrasound (1)		
Week 16	Final Exam		

	Semester 1		
Course Name: Obstetrical Ultrasound			
Course Director: Associate Prof. Dr. Syed Amir Gilani			
Course Code: PGDG-7104			
	Teaching Faculty		
	Prof. Dr. Syed Amir Gilani (PhD)		
	Associate Prof. Dr. Khadija tul Sughra (PhD)		
Week	Course Content		
Week 1	Early Fetal Development (1)		
Week 2	Ectopic pregnancy (1)		
Week 3	fetal growth disorders (1)		
Week 4	Multiple pregnancy (1)		
Week 5	Quiz 1(2)		
Week 6	Maternal disorders complicating pregnancy (1)		
Week 7	Amniotic fluid (1)		
Week 8	Mid Term		
Week 9	The umbilical cord (1)		
Week 10	Ultrasound evaluation of the fetal spine(2)		
Week 11	Ultrasound evaluation of the fetal heart (1)		
Week 12	Quiz 2		
Week 13	Interventional Procedures in Obs-I(1)		
Week 14	Color Doppler in Obs-I(1)		
Week 15	Multiple Pregnancy (1)		
Week 16	Final Exam		

	Semester 1		
Course Name: Abdominal Ultrasound			
C	Course Director: Asst. Prof. Dr. Yousaf Farooq (PhD)		
Course Code: PGDG-7105			
Course Faculty			
	1: Prof. Dr. Syed Amir Gilani (PhD)		
	Associate Prof. Dr. Khadija tul Sughra (PhD)		
	3: Asst. Prof. Dr. Yousaf Farooq (PhD)		
Week	Course Content		
Week 1	Normal abdominal vasculature (1)		
Week 2	Sono anatomy of liver (2)		
Week 3	Focal liver Diseases-I (2)		
Week 4	Cystic Liver Diseases-II (2)		
Week 5	Ultrasound of Gall Bladder (3)		
Week 6	Ultrasound of Pancreas (1)		
Week 7	Ultrasound of Spleen (1) + Quiz		
Week 8	Mid Term		
Week 9	Ultrasound of normal kidney (1)		
Week 10	Ultrasound of suprarenal glands (1)		
Week 11	Ultrasound of solid lesions (1)		
Week 12	Ultrasound of renal cystic lesions (1)		
Week 13	Ultrasound abdominal vessels (1)+ Quiz 2		
Week 14	Ultrasound of ureters, urinary bladder and urethra and Prostate (3)		
Week 15	Interventional Ultrasound in abdomen+ Report Writing (3)		
Week 16	Final Exam		