



Institute of Health Care Management and Development



**INSTITUTE OF HEALTH CARE MANAGEMENT AND DEVELOPMENT,  
PESHAWAR**

**IN**

**COLLABORATION WITH HEALTH SERVICES ACADEMY ISLAMABAD (DEGREE  
AWARDING INSTITUTE, GOVERNMENT OF PAKISTAN)**

# Diploma In Ultrasound

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## **Course Description:**

In this course, you'll learn how to use ultrasound to diagnose the most important problems seen in the acute care setting. Ideal for anyone who's just starting to use point of care ultrasound — be it in the emergency department, general ward, ICU, or private clinic. Learn to use US to increase your success rate, and decrease complications, when performing common procedures

## Topics include:

1. Ultrasound Physics: Transducer Basics, Imaging Conventions, Artifacts, Doppler-Mode
2. Gall bladder & Common bile duct: Biliary system, GB imaging, Pathologies: Cholelithiasis, Cholecystitis (Acute & Chronic), Polyp, GB full of stones, Adenomyomatosis, Worms in GB, Cholelithiasis
3. Liver: Basic Anatomy, Scanning, Pathologies: Cirrhosis, Acute hepatitis, Haemangioma, Fatty liver, Abscess, polycystic liver disease, Simple cyst, Hydatid cyst, solid tumor masses
4. Kidney: Basic Anatomy, Scanning, Congenital Anomalies: Pelvic Ectopic kidney, Horse shoe kidney, Crossed fused renal ectopia, Pathologies: Parenchymal changes (Grade I, II, III), Stone, Hydronephrosis, Abscess, Angiomyolipoma
5. Urinary Bladder: Basic Anatomy, Scanning, Prevoid & post void volume, Vesicle calculus, Cystitis, Bladder diverticula, Tumorous mass
6. Spleen & Pancreas: Anatomy, Pancreatitis ( Acute & Chronic), Pseudocyst, Tumorous mass, Spleenomegally, Splenic Abscess

7. Uterus: Basic Anatomy, Scanning, Hypoplastic uterus, Hematocolpos & Haematometocolpos, Fibroid, Adenomyosis, Mensural Cycle: Ovarian cycle, Uterine cycle
8. Ovaries: Basic anatomy, Ovarian Pathologies: Follicular retention cyst, Simple cyst, Haemorrhagic cyst, Chocolate/Endometriotic Cyst, Dermoid cyst, Polycystic Ovaries
9. Obstetrics: 1st Trimester - True /False gestational sacs & their characteristic features, Ectopic pregnancy, Twin pregnancy, parameters of determining gestational age (CRL, MSD), Threatened Abortion, Blighted ovum, Missed Abortion, Cervical incompetence, Gestational trophoblastic diseases

2nd Trimester - Normal fetal Anatomy & parameters of determining gestational age (BPD, FL, AC), fetal congenital anomalies

3rd Trimester - Placenta, Presentation /Lie, IUGR, Soft markers of pregnancy

**Credit Hours: (Including 2 Contact Session)**

**08** (5 credit hours for Contact Sessions and 3 credit hours for assignments and Practical Work.)

**Total duration and Format:**

6 months (24 weeks, including contact sessions, assignments and Practical Work).

**After completing this course, you will be able to:**

Perform an ultrasound of abdominal & OB/GYN organs. Confidently identify normal variants of the abdominal & OB/GYN organs. Diagnose and document the most common abdominal & OB/GYN pathologies. Differentiate between benign and malignant changes in abdominal & OB/GYN organs. Select the key images to document and write a comprehensive ultrasound report.

**Program Fee: Rs 50,000/-**

**Address:** Institute of Health Care Management and Development, (Imperial Education System Building) Opposite Roots Millennium Schools System Gul abad, Phase-III Chowk Jamrud Road Peshawar.

For Further detail Please contact.

**Director / Program Coordinator**

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