



**INTEGRAL UNIVERSITY** | 

**INSPIRING EXCELLENCE**

**INTEGRAL INSTITUTE OF MEDICAL  
SCIENCES & RESEARCH  
(IIMSR)**

**DEPARTMENT  
OF  
RADIOLOGY & RADIODIAGNOSIS**



**PhD. Entrance Syllabus**

**Session: 2024-25**

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**INTEGRAL INSTITUTE OF MEDICAL SCIENCES & RESEARCH**  
**PhD. ENTRANCE SYLLABUS-2024**  
**RADIOLOGY & RADIODIAGNOSIS**

**1. Musculo-skeletal System:**

Interpretation of diseases of muscles, soft tissue, bones and joints including congenital, inflammatory, traumatic, endocrine and metabolic, neoplastic and miscellaneous conditions.

**2. Respiratory System:**

Interpretation of diseases of the chest wall, diaphragm, pleura and airway; pulmonary infections, pulmonary vasculature; pulmonary neoplasm; diffuse lung disease; mediastinal disease, chest trauma; post-operative lung and X-ray in intensive care.

**3. Cardiovascular System:**

Interpretation of diseases and disorders of cardiovascular system (congenital and acquired conditions) and the role of imaging by conventional radiology, ultrasound, colour Doppler, CT, MRI, Angiography and Isotopes Studies.

**4. Gastro-intestinal tract and hepato-biliary pancreatic system:**

Interpretation of diseases and disorders of mouth, pharynx, salivary glands, esophagus, stomach, small intestine, large intestine, diseases of omentum, peritoneum and mesentery: acute abdomen, abdominal trauma. Diseases and disorders of liver, biliary system and pancreas.

**5. Urogenital System:**

Interpretation of various diseases and disorders of genitorurinary system. These include: congenital, inflammatory, traumatic, neoplastic, calculus disease and miscellaneous conditions.

**6. Central Nervous System (C.N.S.):**

Interpretation of diseases and disorders of the head, neck and spine covering, congenital, infective, vascular, traumatic neoplastic degeneration metabolic and miscellaneous condition.

**7. Imaging in Emergency Medicine.**

**8. Imaging in Obstetrics and Gynecology.**

**9. Imaging of Breast and interventional procedures.**

**10. ENT, EYE and Dental Imaging.**

**11. Imaging of endocrine glands and those involved with metabolic diseases.**

**12. Radiation safety and Protection**

**13. Radiation physics**

**14. Recent advances**