



School of Radiology

Program:	Doctor of Radiology
Short Title:	DRD
Duration:	10 Semesters (5 years)
Credit hours:	174
Eligibility:	FSc Pre Medical with minimum 50% marks or equivalent

Course Description:

Radiologic Sciences which deals with the use of ionizing radiation including X rays and other forms of radiant energy in the diagnosis treatment and management of diseases, is an independent area of modern medical sciences and pivot of modern diagnostic machine. It is a health care profession combining state of the art technology and imaging techniques with human compassion to provide a rewarding career.

Objectives

The program is designed to attain the following objectives

- To train radiographers and radiological scientists with sufficient and relevant scientific and technological skills with high degree of competence and safety in the practice of radiography in health care delivery

system.

- To train radiographer and radiological scientists with sufficient interdisciplinary skills to perform their role as members in healthcare teams.
- Course work typically focuses on Patient care, patient positioning, radiation safety and protection in addition to radiation physics, pathology and other advanced topics

Career Opportunities

There are plenty opportunities for graduate Radiographers in teaching and general hospitals to perform in patient assessment, patient management, fluoroscopy and other radiologic procedures.

Doctor of Radiology

Scheme of Studies

Semester I

Course Code	Course Title	Credit Hours
ENG-111	English-I (Functional English)	3(3-0)
IS-112	Islamic Studies	2(2-0)
IT-113	Introduction to Computing	3(2-1)
PHY-114	Physiology	3(3-0)
BIO-115	Biochemistry	3(3-0)
ANA-101	Anatomy	4(3-1)
Credit Hours :		18

Semester II

Course Code	Course Title	Credit Hours
ANA-121	Applied Anatomy-I	3(2-1)
PHY-122	Applied Physiology-I	3(2-1)
RAD-123	Obstetrical Ultrasound-I	4(3-1)
RAD-124	Medical Radiological Physics	4(3-1)
ENG-121	English-II (Communication & Writing Skills)	2(2-0)
PS-122	Pakistan Studies	2(2-0)
Credit Hours :		18

Semester III

Course Code	Course Title	Credit Hours
ANA-211	Applied Anatomy II	3(2-1)
PHY-212	Applied Physiology II	3(2-1)
PAT-213	Pathology	4(3-1)
RAD-214	Obstetrical Ultrasound-II	3(3-0)
HU-322	Professional Ethics	2(2-0)
ENG-211	Technical Writing and Presentation Skills	3(3-0)
Credit Hours :		18

Semester IV

Course Code	Course Title	Credit Hours
MED-321	Applied Medicine	3(3-0)
SUR-322	Applied Surgery	3(3-0)
PAT-323	Applied Pathology	3(3-0)
RAD-324	Echocardiography	3(2-1)
RAD-325	Radiological Instrumentation	3(3-0)
RAD-326	Radio Therapy and Oncology	3(3-0)
Credit Hours :		18

Semester V

Course Code	Course Title	Credit Hours
RAD-221	Interventional Radiology-I	3(2-1)
RAD-222	Patient Care	3(3-0)
RAD-223	Gynecological Ultrasound	3(2-1)
RAD-224	Abdominal Ultrasound -I	3(2-1)
RAD-225	General Radiology	3(3-0)
RAD-226	Basics of Doppler Ultrasound	3(2-1)
Credit Hours :		18

Semester VI

Course Code	Course Title	Credit Hours
RAD-311	Interventional Radiology-II	3(2-1)
RAD-312	Small Parts Ultrasound-I	3(2-1)
RAD-313	Abdominal Ultrasound -II	3(2-1)
RAD-314	Radiation Sciences and Technology	3(3-0)
RAD-315	Musculoskeletal Ultrasound	3(2-1)
BIO-414	Biostatistics	3(3-0)
Credit Hours :		18

Semester VII

Course Code	Course Title	Credit Hours
RAD-411	Radiography Immerging Processes	3(3-0)
RAD-412	Vascular Ultrasound	3(2-1)
RAD-413	Mammography Special Radiological Techniques -I	3(3-0)
RAD-414	Angiography and Cardiac Imaging	3(3-0)
RAD-415	Magnetic Resonance Imaging (MRI)-I	3(3-0)
Credit Hours :		15

Semester VIII

Course Code	Course Title	Credit Hours
RAD-421	Computed Tomography (CT)	3(2-1)
RAD-422	Mammography Special Radiological Techniques -I	3(3-0)
RAD-423	Magnetic Resonance Imaging (MRI)-I	3(3-0)
RAD-424	Advances in Medical Imaging Technology	3(3-0)
RAD-425	Nuclear Medicine Sciences	3(3-0)
RAD-426	Radiation Protection / Radio Biology	3(0-3)
Credit Hours :		18

Semester IX

Course Code	Course Title	Credit Hours
RAD-511	Clinical Practice in Computed Tomography (CT)	3(1-2)
RAD-512	Clinical Practice in Medical Imaging in Emergency Medicine	3(1-2)
RAD-513	Clinical Practice in Ultrasound	3(1-2)
RAD-514	Clinical Practice in Vascular Ultrasound	3(1-2)
RAD-515	Clinical Practice in X-Ray	3(1-2)
RAD-516	Radiology Administration and Management	3(3-0)
Credit Hours :		18

Semester X

Course Code	Course Title	Credit Hours
RAD-521	Clinical Practice in Fluoroscopy	3(1-2)
RAD-522	Clinical Practice in Interventional Radiology	3(1-2)
RAD-523	Clinical Practice in Magnetic Resonances Imaging (MRI)	3(1-2)
RAD-524	Clinical Practice in Mammography	3(1-2)
RAD-525	Clinical Practice in Nuclear Medicine	3(1-2)
Credit Hours :		15
Total Credit Hours :		174

