



School of Ultrasonography

Program:	Doctor of Ultrasonography
Short Title:	DUS
Duration:	10 Semesters (5 years)
Credit hours:	177
Eligibility:	FSc Pre Medical with minimum 50% marks or equivalent

Course Description:

Radiologic Sciences is a health care profession combining state of the art technology and imaging techniques with human compassion to provide a rewarding career.

Objectives

The curriculum equips graduates for a career as a radiologic tech and a bachelor's degree leads toward a higher salary, greater leadership roles, and management opportunities. Coursework typically focuses on the basics, including patient care, patient positioning, ethics, radiation safety and protection in addition to radiation physics, pathology, anatomy, and other advanced topics.

Career Opportunities

The diagnostic ultrasound professional is an individual

qualified by professional credentialing and academic and clinical experience is provide diagnostic patient care services using ultrasound and related diagnostic procedure.

Diagnostic ultrasound professional can

- Perform patient assessments
- Acquire and analyze data obtained using ultrasound and related diagnostic technologies
- Provide a summary of findings to the physician to aid in patient diagnostic and management
- Use independent judgment and systematic problem solving methods to produce high quality diagnostic information and optimize patient care.

Doctor of Ultrasonography

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)
DUG-413	Breast Sonography I	3(3-0)
DUG-414	Echo Cardiography	3(3-0)
	Elective-I	3(3-0)
	Elective-II	3(3-0)
Credit Hours :		18

Semester VIII

Course Code	Course Title	Credit Hours
DUG-421	Breast Sonography II	3(3-0)
DUG-422	Advances in Medical Imaging Technology	3(3-0)
DUG-423	Radiation Protection / Radio Biology	3(0-3)
	Elective-III	3(3-0)
	Elective-IV	3(3-0)
	Elective-V	3(3-0)
Credit Hours :		18

Semester IX

Course Code	Course Title	Credit Hours
RAD-511	Clinical Training of Obstrectic Ultra Sonography	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
DUG-521	Interventional USG	3(1-2)
DUG-522	Vascular Ultra Sonography	3(1-2)
DUG-523	Abdominal USG	3(1-2)
DUG-524	Gynecological USG	3(1-2)
	Elective VI	3(1-2)
	Credit Hours :	15
	Total Credit Hours :	177

