



WOMEN UNIVERSITY SWABI

KHYBER PAKHTUNKHWA-PAKISTAN

Department of Diagnostic Medical Imaging Sciences





Vice Chancellor's Message

Welcome to Women University Swabi, a university that is committed to empower women through higher education and provide them opportunities to work in a wide array of settings such as education, business, industry, health, and social services sectors.

To me, the job of a university is not only to produce degree holders and commercially marketable human resources, but I believe it is more than that. Universities are required to produce loyal, honest and enlightened human beings who can empathetically understand the needs of society, reverentially work in both national and international community, and take better care of the future generations.

PROF. DR. SHAHANA UROOJ KAZMI
WOMEN UNIVERSITY SWABI
KHYBER PAKHTUNKHWA, PAKISTAN



Department of Diagnostic Medical Imaging Sciences

Vision

“To be an internationally recognized leader of Diagnostic Medical Sonography education for undergraduate, graduate, and continuing education”.

Mission

We are committed to preparing students as successful leaders who combine managerial skills with an understanding of the socio-cultural system to meet the current and future needs of industry, society, and the environment at large. We encourage females to become independent and creative thinkers.

DMIS

**Diagnostic Medical
Imaging Sciences**

Introduction

Department of Diagnostic Medical Imaging (DMIS) is a newly established department in the Women University Swabi which is introducing regular BS (DMIS) program first time in the country with the aim to provide professional degree with training in DMIS to female students.

Diagnostic Medical Imaging Sciences are highly trained, in-demand professionals who use ultrasounds to produce and record images of abdominal organs, fetus and blood vessels inside the body. This hands-on accredited program provides an opportunity to the students to participate in clinical rotations in major hospitals. Students will receive training on industry-standard equipment and get the opportunity to learn the same technology they will use in their practicum placement and career.

BS (DMIS) is an accredited and professional program that will produce qualified graduates. It is very cost-effective healthcare diagnostic service for the residents of District Swabi.



Program Highlights (HEC Approved)

In diagnostic medical imaging sciences, scholars will acquire substantial education and hand on experience during four years.

1st year:

Students will study introductory and basic physiology, biochemistry and physiology with respect to principle and application of diagnostic and medical sonography. Students will also get knowledge of basic, principles and applications of PACS and imaging

2nd Year:

Student will acquire key understanding of basic and advance obstetrical sonography with computer application and fundamental medical physics.

3rd Year:

Student will achieve theoretical and practical knowledge of basic and advance vascular sonography with fundamental standards of DICOM, PACS.HL7 and IHE.

4th Year:

Student will attain knowledge about sonography physics and instrumentation, healthcare data analysis and quality assurance sonography with sonography clinical practicum I, II and III.

Job opportunities and Internships

It is a growing field and offers a wide range of employment opportunities in the areas of clinical analysis, public health industry, higher education, health care administration, research and internship in hospitals.

ULTRASOUND LAB:

Department of diagnostic Medical Imaging Sciences is newly established department. And also have established lab, where students perform hands on practice on patients and other students.

Students perform ultrasound for different subjects:

1. Abdominal Ultrasound
2. Obstetrical Ultrasound
3. Gynecological Ultrasound
4. Vascular Ultrasound
5. Muscular Ultrasound



EVENTS:

Students were attended 9th sonocon ultrasound seminar which was held at Multan. In seminar students perform hands on practice and also learn more about ultrasound technology and applications of ultrasound in different fields.



DMIS

**Diagnostic (4 Years)
Medical Imaging Sciences**

**(4 Years)
8 Semesters**

Total Credit Hours 120
Thesis/Dissertation/Project 6 Credit Hr

Scheme of Studies Diagnostic Medical Imaging Sciences (DMIS)

Semester-1

(Cr Hrs=15)

Course Code	Course Title	Cr.H
DMS-301	Anatomy	3(2+1)
ISL-301	Islamic Studies	3(3+0)
ENG-301	English Grammar & Composition	3(3+0)
CS-301	Introduction to computer	3(3+0)
ARAB-301	Arabic	3(3+0)

Semester-2

(Cr Hrs=15)

Course Code	Course Title	Cr.H
DMS-302	Physiology	3(2+1)
PAKS-301	Pakistan Studies	3(3+0)
ENG-302	Basic Communication Skills	3(3+0)
PAKS-302	Islamic History	3(3+0)
CS-302	Basic Computer programming	3(3+0)

Semester-

(Cr Hrs=15)

Course Code	Course Title	Cr.H
DMS 403	Pathology	3(2+1)
DMS 404	Introduction to Diagnostic Medical Sonography	3(3+0)
ENG-401	Technical Report Writing	3(3+0)
PSY-401	Introduction to psychology	3(3+0)
PHYS-401	Introduction to physics	3(2+1)

Semester-4

(Cr Hrs=15)

Course Code	Course Title	Cr.H
DMS-405	Application of Medical Sonography	3(3+0)
DMS-406	Scanning Techniques	3(3+0)
DMS-407	Sonography Physics and Instrumentation	3(2+1)
LAW-403	Introduction to human rights	3(3+0)
PHYS-403	Introduction to electronics	3(3+0)

Semester-5

(Cr Hrs=15)

Course Code	Course Title	Cr.H
DMS -508	Basic Obstetrical and gynecological sonography	3(2+1)
DMS-509	Basic Abdominal Sonography	3(2+1)
DMS-510	Medical Ethics and Principles	3(2+1)
DMS-511	Fundamental understanding of sonography technology	3(3+0)
DMS-512	Quality Assurance in sonography	3(3+0)

Semester-6

(Cr Hrs=15)

Course Code	Course Title	Cr.H
DMS-513	Advanced Abdominal Sonography	3(2+1)
DMS-514	Advanced obstetrical and gynecological sonography	3(2+1)
DMS-515	Vascular sonography/ Doppler ultrasound	3(2+1)
DMS-516	Health care data analysis	3(2+1)
DMS-517	Report writing	3(3+0)

Semester-7

(Cr Hrs=15)

Course Code	Course Title	Cr.H
DMS-618	PACS and DICOM implementation	3(2+1)
DMS-619	Small parts ultrasound	3(3+0)
DMS-620	Research methods in sonography	3(3+0)
DMS-621	Musculoskeletal ultrasound	3(2+1)
DMS-622	Safety in health care center	3(2+1)

Semester-8

(Cr Hrs=15)

Course Code	Course Title	Cr.H
DMS-623	Supervised clinical practice in Muscular ultrasound	3(3+0)
DMS-624	Supervised clinical practice in abdominal ultrasound	3(3+0)
DMS-625	Supervised clinical practice in Obstetrical, gynae ultrasound	3(0+3)
DMS-626	Supervised clinical practice in Vascular ultrasound	3(0+3)
DMS-627	Supervised clinical practice in small parts ultrasound	3(0+3)

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