



**Dow University  
of Health Sciences**

# **PROSPECTUS**

# **BS - RADIOLOGIC TECHNOLOGY**

## **Session 2021-22**

Dow Institute of Radiology (DIR)

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## **INTRODUCTION:**

Radiology also called as diagnostic imaging, is a series of different tests that take pictures of various parts of the body

A number of different imaging exams can be used to provide the view to inside the body, including X-ray, MRI, ultrasound, CT scan, mammography, nuclear medicine, fluoroscopy, bone mineral densitometry and PET scan

The radiologic technology program features training of four years of intensive preparations. In our radiologic technology program, training is usually being split between classroom instructions and hands on clinical trainings the X-ray students will obtain a thorough working knowledge of radiographic physics and anatomy, radiation safety, proper patient positioning and technique quality control and darkroom skills.

Students will also receive instruction in infection control, sterile technique, body mechanics and patient privacy.

To demonstrate fast adapting to various situations, students also have to possess good communication skills.

## **Vision Statement**

To be pre-eminent academic institution committed to changing and saving lives.

## **Mission Statement**

Providing outstanding patient centered education, training and clinical care informed by cutting edge research and innovation, generating and disseminating new knowledge

## **Overview OF INSTITUTE:**

Dow Institute of Radiology stands at the forefront of the Imaging Industry. Our campuses offer a full range of diagnostic and screening services to meet the needs of our patients and referring physicians. To further enhance our service quality and seamless medical care, we also offer a filmless digital environment for image viewing, reporting, and storage with the Picture Archiving and Communication System (HIMS). The Dow Institute of Radiology was established while keeping the public in mind. Our imaging centres offer a comprehensive array of diagnostic imaging services at times convenient for any busy schedule. All of our imaging procedures use advanced imaging technology that is subject to stringent regulatory standards. Our team of imaging professionals, including highly trained and experienced radiologists and technologists, always try to perform and interpret all imaging procedures with the utmost precision so that our patients receive the most accurate diagnostic information possible.

04 years Bachelor's degree for undergraduate Technologists BSRT program started at 2015. 1st batch of AASRT converted into BSRT in 2016. First Batch of BSRT was consist of 14 students and pass out in 2016. Currently 90 students are enrolled in different years of the program.

### **Eligibility of the candidate:**

- HSSC (Intermediate Science) Pre-Medical/ A-Level or Equivalent, Min. 60% marks or equivalent duly certified by IBCC
- Candidate's Domicile of Sindh

**Number of seats: 20**

Recognition by governing bodies/councils: The program is approved by academic council and syndicate.

## **Curriculum:**

### **Semester 1**

1. Anatomy for Allied Health
2. Physiology for Allied Health
3. Medical Imaging Physics 1
4. English Communication
5. Radiologic For Medical Technology-1
6. Mathematics& Statistics
7. Introduction to computer
8. Clinical Practicum-1

### **Semester 2**

1.English Fundamentals for Radiology Technology
2. RADIOLOGY FOR MEDICALTECHNOLOGIST-2
3. Medical Imaging Physics -2
4. RadiologicPharmacology-1
5. Clinical Practicum-2

### **Semester 3**

1.RADIOLOGY FOR MEDICALTECHNOLOGIST-3
2. Pakistan Studies
3. Islamiat / sociology
4. Clinical Practicum-3

### **Semester 4**

1.RADIOLOGY FOR MEDICAL TECHNOLOGIST-4
2. Medical Imaging Pathology
3. Clinical Practicum-4

### **Semester 5**

1.Diagnostic Procedures in Nuclear Medicine
2. Advance Fluoroscopy
3. Ultrasound
4. PACS in Radiology
5. Clinical Practicum-5

### **Semester 6**

1.Advance Computed Tomography (CT)
2. Research Methodology & Ethics
3. Clinical Practicum-6

### **Semester 7**

1.Advance Magnetic Resonance Imaging (MRI)
2. Echocardiography
3. Biostatistics & Research Assignment
4. Clinical Practicum-7

### **Semester 8**

1.Angiography & Cardiac Imaging
2. Research Project
3.Clinical Practicum-8

**Assessment methods:** Enrolled candidates are assessed for their knowledge about the subject and skills with internal analyses. It includes continuous assessments, projects, assignments clinical practicum and competencies.

#### **Formative Assessment**

40% as Quizzes and Class Presentation

#### **Summative Assessment**

60% as term assessment as BCQS & Viva

#### **Facilities:**

The Dow institute of Radiology is located in state of the art building having seminar halls and classrooms well-furnished, spacious and equipped with multimedia facility which enhances teaching-learning process in effective way. It is complemented with an air-conditioned environment that helps students to sustain the exhausting climatic conditions of the city.

The Dow institute of Radiology runs multiple under and post graduate program in which BSRT is skill oriented program and therefore, has made it mandatory for all the students to do clinical practicums as a part of their curriculum. For that purpose students are rotated in their departments according to the curriculum of that specific semester to develop proper and adequate understanding and orientation of practical work. To enhance the fitness of students, they will have annual sports week, a recreational area consisting of gymnasium and indoor games is being built where these facilities can be availed by the students.

First aid treatment and general medication are also available for students in any unforeseen circumstances. Moreover, students have an access to make an appointment at hospital doctors' consultation.

#### **Faculty:**

##### **1. Prof. Dr Nasreen Naz**

Director Dow institute of Radiology

##### **2. Dr. Mukhtiar Ahmed Memon**

Director BSRT program

Assistant Professor

##### **3. Dr Quratulain Hadi**

Coordinator BSRT program

Assistant professor

**4. Dr Ummey Aymen**

Coordinator BSRT program

Assistant professor

**Faculty of Radiology**

**1. Dr Sohail Ahmed Khan**

Assistant professor

Director MD program

**2. Dr Nouman al Qamri**

Assistant professor

**3. Dr Syed Ali Baqar**

Assistant professor

**4. Dr Anila Rahim**

Assistant professor

**5. Dr Maryam Taufiq**

Assistant professor

**6. Dr Binish Rasheed**

Assistant professor

**7. Dr Naureen Farhan**

Assistant professor

**8. Dr Sarah Yusuf**

Assistant professor

**10. Dr Ayesha Walid**

Assistant professor

**11. Dr Ambreen Sair**



Assistant professor

**12. Dr Nida Rafiq**

Assistant professor

**13. Dr Rubia Salman**

Assistant professor

**14. Dr Aameena Begum**

Assistant professor

**15. Dr. Mahnoor Hafeez**

Senior Registrar

**16. Dr Saira Yasmeen**

Senior Registrar

**17. Dr Hina Ali**

Senior Registrar

**18. Dr Sameera Salman**

Senior Registrar

**Other Faculty:**

**Dr Kelash,** HOD Physiology

Dr Altaf Hussain, Lecturer

Dr Uzair, Lecturer

**Dr Mahrukh Kamran, Assistant Professor** Anatomy

**Dr Mahayrokh Asif,** HOD Pharmacology

Dr Kashif, Faculty Pharmacology

**Mujeeb Ur Rehman,** Medical Physisit

**Naseem Ahmed Khan,** Faculty Computer Dept

**Muhammad Saqib**, Faculty Computer Dept

**Dr Shaheen Sharafat**, HOD Pathology

Dr Uzma Bukhari, Faculty Pathology

Dr Ferheen Danish, Faculty Pathology

### **VISITING FACULTY**

1. Ms Rabiya Khalid, Faculty English
2. Prof Dr Syed Akhtar Raza, Faculty Mathematics and Statistic's
3. Ms Shabana Kamran , Faculty Islamiat/Pakistan Studies and Sociology
4. Mr Irfan Muhammad, Faculty Pacs in Radiology