

**ERA UNIVERSITY**  
**FACULTY OF ALLIED HEALTH SCIENCES**  
**DEPARTMENT OF RADIOLOGICAL IMAGING TECHNIQUES**

<b>Name of HoD:</b>	Dr. Taruna Singh MD, Radiotherapy <a href="mailto:tarunasingh55@gmail.com">tarunasingh55@gmail.com</a>
<b>Faculty</b>	01 Professor 01 Associate professor 04 Assistant Professor 03 Tutor

S. No	Name	Designation	Qualification	Experience	Awards & certificate/Add on courses
1.	Dr. Taruna Singh	Associate Professor & In-Charge	MD Radiotherapy	19 years (16 years teaching training and work experience in radiodiagnosis)	1.basic course in biomedical research  2.Basic course in medical education and technology  3. Foundation certificate course in palliative care  4.Certificate course in medical education by Era's Lucknow medical college and University  5 Life time member of Association of radiation oncologists of India  6 winner of best paper award in up chapter conference by AROI on 23rd October 2005

2	<b>Prof. (Dr.) Mohd Usman Khan</b>	<b>Professor</b>	<b>PhD RIT</b>	<b>18 Years</b>	
3	<b>Mr. Dilshad Ahmad</b>	<b>Assistant Professor</b>	<b>M.Sc. MIT</b>	<b>4 years 10 months</b>	
4	<b>Mr. Shailendra Kumar Diwakar</b>	<b>Assistant Professor</b>	<b>M.Sc. RIT</b>	<b>3 years 01 month</b>	
5	<b>Mr. Ajay Deep Singh</b>	<b>Assistant Professor</b>	<b>M.Sc. RIT</b>	<b>2 years</b>	
6	<b>Mr. Piyush Pandey</b>	<b>Assistant Professor</b>	<b>M.Sc. RIT</b>	<b>2 years</b>	
7	<b>Mr. Bhanu Prakash Avasthi</b>	<b>Tutor</b>	<b>Dip in RIT</b>	<b>4 years 6 months</b>	
8	<b>Mr. Hamd Khan</b>	<b>Tutor</b>	<b>BRIT</b>	<b>10 months</b>	
9	<b>Ms. Tatheer Fatima Zaidi</b>	<b>Tutor</b>	<b>BRIT</b>	<b>10 months</b>	
<b>Faculties associated from Department of Radiodiagnosis ELMCH</b>					
1	<b>Prof. Dhan Prakash Gupta</b>	<b>Professor</b>	<b>MD, Radiolog y</b>		
2	<b>Dr. Dheerendra Kumar Saxena</b>	<b>Associate Professor</b>	<b>MD, Radiolog y</b>		

## **Department of Radiological & Imaging Techniques**

The radiology department plays an important role in the modern healthcare system, being an important component in the diagnosis and treatment of many medical conditions. Specializing in the use of medical imaging techniques, this department facilitates the visualization of internal body structures, thereby helping medical professionals make accurate diagnoses and formulate effective treatment strategies. Physicians with specialized training in radiology interpret images created by various imaging modalities and work closely with other healthcare providers to provide overall patient care.

Imaging modalities encountered in radiology departments include:

1. **X-ray:** X-ray is a widely used diagnostic tool to take pictures of bones and hard tissues. This convenient and non-invasive method helps detect fractures, infections and certain respiratory conditions.
2. **Computed Tomography (CT):** By combining X-rays and computerized technology, CT scan creates complex images of the body. It is valuable for visualizing internal organs and blood vessels and diagnosing various disorders.
3. **Magnetic Resonance Imaging (MRI):** Using strong magnets and radio waves, MRI creates complete images of soft tissues such as the brain, spinal cord, muscles, and joints. This technique

is more effective in diagnosing conditions such as brain tumors, joint injuries, and neurological disorders.

4. **Ultrasound:** Ultrasound uses high-frequency sound waves to image organs, blood vessels, and the developing fetus. Known to be safe, ultrasound is often used to monitor pregnancy, evaluate the heart, and diagnose certain conditions.

5. **Comprehensive Radiology:** This includes minimally invasive procedures guided by special techniques in the field of imaging. Allied radiologists perform procedures such as angioplasty, embolization, and biopsy with image guidance that improves accuracy.

The radiology department has state-of-the-art imaging equipment including digital X-ray unit, CT scanner, MRI machines, ultrasound machines, mammography machine, dental x-ray unit and fluoroscopy unit. These machines are operated by technologists and radiographers who ensure patient safety by obtaining high quality images.

In addition, radiology departments use Picture Archiving and Communication Systems (PACS) to store, manage, and share digital images and reports electronically. This technology allows healthcare professionals to access images remotely and collaborate seamlessly.

In fact, the radiology department plays an important role in modern healthcare, providing accurate diagnosis and guiding medical procedures through various advanced imaging technologies.

The faculty of Allied Health Science at Era University offers two year of diploma courses in CT scan technician, MRI technician, Radiological Intervention technician, X ray technician and 4 years Bachelor of Science in Medical radiologic and Imaging Technology. These courses are affiliated to Uttar Pradesh state medical faculty. Medical Imaging Technology is an allied health profession that focuses on the use of radiological imaging modalities used to diagnose, treat and prevent illness. It is one of the most successful career promising branch to those who pursue it MIT specialist are active constituents of the healthcare teams and hospitals. Students learn how to conduct investigation, perform radiological procedure, interpreted the report and record their result to operate and maintain complex radiological equipment. As the number of medical imaging investigations being conducted continues to grow due to expansion in health sector and the introduction of new advancement of medical imaging, profession is on the rise.

## LEARNING OBJECTIVES

The Aim of the programs is to provide highest accredited educational and clinical experiences that will render qualified, patient focused, compassionate, critical thinkers Medical Radiology and Imaging Technologist for the community. After completion of this course, one should be able to do image acquisition, image processing and handle the all radiological and imaging equipment independently or as the healthcare team member. They should also able to ensure radiation protection, quality assurance, identify and manage

emergency situations, provide empathetic professional patient care.

## PROGRAM OUTCOMES

- Provide the profession and community with trained qualified technologist.
- Provide education a comprehensive program that promotes problem solving, critical thinking and communication skills in the clinical environment.
- Students will demonstrate quality patient care skills including professionalism and ethical behaviors as specified in the code of ethics.
- Graduate students with specific skills necessary to be competent entry level.

## ELIGIBILITY FOR ADMISSION

- 10 + 2 or equivalent examination recognized by any board with minimum 55% marks in Physics, Chemistry and Biology (PCB).
- For lateral entry 2 years diploma in CT technician/MRI Technician/X-ray Technician/DRIT affiliated with uttar Pradesh state medical faculty or equivalent.

## COURSE DURATION

- From batch 2023 :4 years (3 yrs.+ 1 of internship)
- Till batch 2022 :3.5 years (3yrs + six semesters) =+6 months of internship

## CAREER PROSPECTS

- Should be able to undertake Mammography, CT scan and MRI procedures independently.
- Assist in specialized radiological procedures.
- Able to do the image processing.
- Should be able to handle all radiological and imaging equipment independently.
- Should ensure radiation protection and quality assurance
- Undertake care and maintenance of all radiological and imaging equipment
- Able to evaluate images for technical quality
- Able to identify and manage emergency situations.
- Able to receive and document verbal, written and electronic orders in the patient's medical record.
- Should have computer skills.
- Should be able to provide empathetic professional patient care.
- Able to demonstrate professional growth, sense of professionalism and desire to learn
- Able to demonstrate the core values of caring, integrity and discovery.

## • BMRIT CURRICULUM AT A GLANCE from batch 2023 (4 yrs.)

### 1<sup>st</sup> semester

- General Anatomy -I
- General Physiology-I
- Basic in Computer & Information Science
- Introduction to Quality and Patient Safety
- Applied Physics
- Image Acquisition, Processing & Archiving
- General Anatomy -I (P)
- General Physiology-I (P)
- Basic in Computer & Information Science (P)
- Applied Physics (P)

### II<sup>nd</sup> semester

- General anatomy II
- General Physiology II
- Basic physics including radiological physics
- Conventional radiography and equipment
- Medical ethics and legal aspects
- Environmental science
- General anatomy II (P)
- General Physiology II (P)
- Basic physics including radiological physics(P)
- Conventional radiography and equipment(P)

### III<sup>rd</sup> Semester

- Clinical radiography and positioning I
- Modern radiological and imaging equipment including physics
- Contrast and special radiography procedures
- Clinical radiography and positioning I(P)
- Modern radiological and imaging equipment including physics(P)
- Contrast and special radiography procedures(P)

### IV<sup>th</sup> Semester

- Physics of newer imaging modalities
- Clinical radiography positioning II
- Newer modalities imaging techniques including patient care
- Quality control in radiology and radiation safety
- Physics of newer imaging modalities(P)
- Clinical radiography positioning II(P)
- Newer modalities imaging techniques including patient(P)
- Quality control in radiology and radiation safety(P)

## V<sup>th</sup> Semester

- Cross sectional anatomy and physiology
- Physics of advanced imaging technology
- Radiographic techniques of advanced imaging technology
- Research methodology and biostatistics I
- Regulatory requirements in diagnostic radiology and imaging act and rules
- Cross sectional anatomy and physiology(P)
- Physics of advanced imaging technology(P)
- Radiographic techniques of advanced imaging technology(P)

## VI<sup>th</sup> Semester

- Quality assurance and radiation safety
- Hospital practice and care of patients
- Research methodology and biostatistics II
- Quality assurance and radiation safety(P)
- Hospital practice and care of patients.(P)
- Project work

## VII semester & VIII semester (One Year Internship)

## BRIT CURRICULUM AT A GLANCE till batch 2022,( 3.5 Yrs)

### 1<sup>st</sup> semester

- Human anatomy I
- Human physiology I
- Fundamentals of medical imaging and radio therapy I
- Basic radiation physics I
- English.
- Fundamentals of computer
- Human anatomy I (P)
- Human physiology I(P)
- Fundamentals of medical imaging and radio therapy I(P)
- Basic radiation physics I(P)
- Fundamentals of computer(P)

### II<sup>nd</sup> Semester

- Human anatomy II
- Human physiology II
- Fundamentals of medical imaging and radiotherapy II

- Basic radiation physics II
- English communication skills-I
- Human anatomy II(P)
- Human physiology II(P)
- Fundamentals of medical imaging and radiotherapy II(P)
- Basic radiation physics II(P)

### IIIrd Semester

- Advanced Radiographic technique I
- English communication skills II
- Radiation physics and radiation protection I
- Equipment of radiotherapy I
- Special geographic technique and procedure I
- Medical biochemistry I
- Pathology I
- Advanced Radiographic technique I(P)
- Radiation physics and radiation protection I(P)
- Special geographic technique and procedure I(P)
- Medical biochemistry I(P)
- Pathology I(P)
- 

### IVth Semester

- Advanced Radiographic technique II
- Radiation physics and radiation protection II
- Equipment of radiotherapy II
- Special radiographic technique and procedure II
- Medical biochemistry II
- Pathology II
- Advanced Radiographic technique II(P)
- Radiation physics and radiation protection II(P)
- Special radiographic technique and procedure II(P)
- Medical biochemistry II(P)
- Pathology II(P)

## Vth Semester

- Radiotherapy planning and quality control I
- Advanced radiographic imaging technology I
- Physics of advanced imaging technology I
- Quality control in diagnostic radiology
- Radiotherapy planning and quality control I(P)
- Advanced radiographic imaging technology I(P)
- Quality control in diagnostic radiology(P)

## Vlth Semester

- Physics of advanced imaging technology II
- Radio safety in diagnostic radiology
- Advanced photographic imaging technology II
- Radiotherapy planning and quality control II
- Advanced photographic imaging technology II(P)
- Radiotherapy planning and quality control II(P)

## Syllabus And eligibility criteria of Diploma In C.T. scan Technician Course

1. Eligibility Criteria for Admission & Duration Of The Course –Candidate Must Have Passed 12<sup>th</sup> With Physics, Chemistry Biology Or
2. Physics, Chemistry, Math With 35% Marks In Intermediate Exam (From UP Board Or Any Other Recognized Board )
3. Candidate Must Have Completed Age Of 17 Years Of Age As On 31<sup>st</sup> December Of Admission Year .

### • COURSE OBJECTIVE –

- Can perform CT scans of all body parts precisely
- He/she is able to develop film
- Can administer contrast & he/she able to handle adverse reaction to it
- He/she able to Use the radiation protection devices
- Well aware of radiation hazards & protection measures.
- Can read basics of various C.T. scan



**In Diploma in CT scan Technician the subjects taught are as follows**

- **Anatomy**
- **Physiology**
- **Pathology**
- **Pharmacology**
- **Microbiology**
- **Radiation physics**
- **Radiation Hazards**
- **Radiographic positioning**
- **Nursing procedures**
- **CT physics**
- **CT clinical application**
- **CT guided procedures**
- **Biomedical Physics of CT**

Course started here since - **2010**

**Course Duration** - It is 2 Years, **Full Time** Diploma Course

**Seats - 10**

**Affiliated from U.P. STATE MEDICAL FACULTY**

### **Syllabus And eligibility criteria of Diploma in MRI Technician Course**

1. Eligibility Criteria for Admission & Duration of The Course –Candidate Must Have Passed 12<sup>th</sup> With Physics, Chemistry Biology Or
2. Physics, Chemistry, Math With 35% Marks in Intermediate Exam (From UP Board or Any Other Recognized Board)
3. Candidate Must Have Completed Age Of 17 Years of Age as on 31<sup>st</sup> December of Admission Year.

- **COURSE OBJECTIVE** –
  - Can perform MRI scans of all body parts precisely
  - He/she is able to develop & post process the film.
  - Can administer contrast & he/she able to handle adverse reaction of it
  - He/she able to Use protective measure used in MRI.
  - Well aware of various MRI scan machine components hazards & protection measures
  - Can read basics of various MRI scan

**In Diploma in MRI scan Technician the subjects taught are as follows**

- **Anatomy**
- **Physiology**
- **Pathology**
- **Pharmacology**
- **Microbiology**
- **Basic physics**
- **MRI physics**
- **Radiation Hazards**
- **Radiographic positioning**
- **Nursing procedures**
- **Radiation Hazards**
- **MRI clinical application**
- **MRI guided procedures**
- **Biomedical Physics of MRI**

Course started here since- **2010**

**Course Duration-** It is 2 Years, **Full Time** Diploma Course

**Seats -30**

**Affiliated from U.P. STATE MEDICAL FACULTY**

### **Syllabus And eligibility criteria of Diploma in Radiological Intervention Technician Course**

1. Eligibility Criteria for Admission & Duration of The Course –Candidate Must Have Passed 12<sup>th</sup> With Physics, Chemistry Biology Or
2. Physics, Chemistry, Mathematics With 35% Marks in Intermediate Exam (From UP Board or Any Other Recognized Board)

Candidate Must Have Completed Age Of 17 Years of Age as on 31<sup>st</sup> December of Admission Year.

- **COURSE OBJECTIVE –**
- Can Perform patient care through safe, efficient, appropriately interventional techniques & procedures
- Observation of site
- Can administer contrast media & he/she able to handle adverse reaction to it
- He/she able to Use the radiation protection devices
- Well aware of radiation hazards & protection measures.

**In Diploma in Radiological Intervention Technician the subjects taught are as follows**

- **Anatomy**
- **Physiology**
- **Interventional procedures**
- **Radiological physics**
- **Radiation Hazards**
- **Radiographic positioning**
- **Nursing procedures**
- **Conditions requiring intervention**
- **CT, MRI, DSA, USG guided procedures**

Course started here since **2021**

**Course Duration-**It Is 2 Years, **Full Time** Diploma Course

**Seats -30**

**Affiliated from U.P. STATE MEDICAL FACULTY**

### **Syllabus And eligibility criteria of Diploma In X-ray Technician Course**

1. Eligibility Criteria for Admission & Duration of The Course –Candidate must Have Passed 12<sup>th</sup> With Physics, Chemistry Biology Or
2. Physics, Chemistry, Math With 35% Marks in Intermediate Exam (From UP Board or Any Other Recognized Board)
3. Candidate Must Have Completed Age Of 17 Years of Age as on 31<sup>st</sup> December of Admission Year.

## **COURSE OBJECTIVE –**

- Can perform X-ray of all parts precisely
- He/she is able to develop film
- Can administer contrast & he/she able to handle adverse reaction to it
- He/she able to Use the radiation protection devices
- Well aware of radiation hazards & protection measures.
- Can read basics of various X-rays.

## **In Diploma in X-ray Technician the subjects taught are as follows**

- **Anatomy**
- **Physiology**
- **Pathology**
- **Pharmacology**
- **Microbiology**
- **Radiation physics**
- **Radiation Hazards**
- **Radiographic positioning**
- **Nursing procedures**
- **Radiological Imaging Techniques and Patient Care**
- **Special Radiographic procedures**
- **Biomedical Physics of X-ray machines**

Course started here since- **2008**

**Course Duration-** It Is 2 Years, **Full Time** Diploma Course

**Seats -30**

**Affiliated from U.P. STATE MEDICAL FACULTY**

**Conference/workshop/  
Lecture Organized**

1. Guest Lecture on topic **“Modern Imaging Advances for Technicians”** by **Dr. Bhanu Priya Singh, Assistant Professor, Department of Radiodiagnosis, Ram Manohar Lohia Institute of Medical Sciences, Lucknow** on **15/05/2023** at Mini auditorium university building ground floor.



2. Guest lecture on topic “**Role of Technicians in Intervention radiology: Hope Beyond Expectation**” by Dr. Saurabh Kumar Assistant Professor Department of Radiodiagnosis KGMU, Lucknow. on 19<sup>th</sup> May 2023 at Mini auditorium university building ground floor.



3. Guest lecture on topic “**Role of Simulator in Radiotherapy Planning: The Radiological Imaging Aspects.**” by **Dr. Teerathraj Verma** Additional Professor Department of Radiotherapy KGMU, Lucknow. on 25<sup>th</sup> July 2023 at Mini auditorium university building ground floor.



# Research Publications

Name of Faculty	Publications (Title)
<p><b>Prof. (Dr.) Usman Khan</b></p>	<ol style="list-style-type: none"> <li>1. Relationship between dose and response in thyroid cancer caused by Radiation Volume, 10 No.1S (2023). <a href="http://sifisherliessciences.com">View of Relationship between dose and response in thyroid cancer caused by Radiation (sifisherliessciences.com)</a></li> <li>2. Effect of Radiation on DNA Volume, 12 doi: 10.31838.</li> <li>3. A study to evaluate information thoughts with perform of Radiographers about COVID-19 disease in integral hospital Lucknow Volume, 10/75, ISSN: 2278-8808.</li> <li>4. Illustrative investigation to evaluate the Know-How and opinion point of patients toward radiation exposure and its protection Volume, 10/75, ISSN: 2278-8808.</li> <li>5. A descriptive study to access the level of radiation safety awareness from ionizing radiation exposures among radiological students studying in Haryana and Delhi NCR Volume, 11 ISSN: 2455-6211.</li> <li>6. To access the knowledge and awareness of radiation dose and risks associated with medical imaging among the general public in India Volume, 10, ISSN: 2349-1590.</li> <li>7. Assessment of knowledge among radiography students about handling of emergency conditions in the radiology department Uttar Pradesh, India "European Journal of Molecular &amp; Clinical Medicine"with ISSN: 2515-8260</li> <li>8. Diagnosis of sports injuries bit imaging modalities. (book) <a href="https://www.goodreads.com/book/show/183569989-diagnosis-of-sports-injuries-with-imaging-modalities">https://www.goodreads.com/book/show/183569989-diagnosis-of-sports-injuries-with-imaging-modalities</a></li> </ol>
<p><b>Dr. Taruna Singh</b></p>	<ol style="list-style-type: none"> <li>1. Ultrasonographic Assessment of Subclinical Atherosclerosis in Smokers Aged &lt;40 Years Singh, Taruna MD (Radiotherapy)1; Karoli, Ritu MD (General Medicine)2,; Khanduri,</li> </ol>






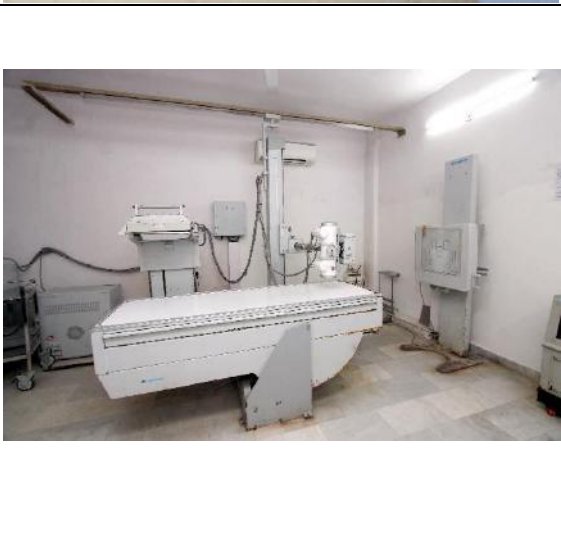
	<p>Sachin MD (Radiodiagnosis)1; Gupta, Nikhil MD (General Medicine)2; Singh, Prem Shanker MD (General Medicine)2  Author Information  Journal of Clinical and Preventive Cardiology  8(3):p 117-120, Jul-Sep 2019.   DOI:  10.4103/JCPC.JCPC_51_18</p> <p><b>2.</b> Beetroot Supplementation on Non-Alcoholic Fatty Liver Disease Patients  Shikha Srivastava<sup>1</sup>, Zeba Siddiqi<sup>2</sup>, Taruna Singh<sup>3</sup>, Lakshmi Bala<sup>4*</sup>  DOI :  <a href="https://dx.doi.org/10.12944/CRNFSJ.7.1.10">https://dx.doi.org/10.12944/CRNFSJ.7.1.10</a></p> <p><b>3.</b> A Study of Multivariate Modalities of Therapy in Gall Bladder Malignancies with Different Clinical, Radiological and Histo-Pathological Profiles at a Low Resource Indian Cancer Centre Taruna Singh , Yogesh Verma , Meena Tiwari , Rahat Hadi , Mukti Nath Singh  VOL 7 NO 1 (2022)  DOI: 10.31557/APJCC.2022.7.1.79-84</p> <p><b>4.</b> Optimum Radiation Fractionation Schedule in Advanced Cancer Cervix; A Study from Low Resource North Indian Cancer Center Taruna Singh , Yogesh Verma , Rahat Hadi , Fareha Khatoon , Mashkoor Ahmed  VOL 7 NO 1 (2022)  DOI 10.31557/APJCC.2022.7.1.47-54</p>
<p><b>Mr. Dilshad Ahmad</b></p>	<p><b>1.</b> A CASE STUDY TO CHECK THE X-RAY CERVICAL SPINE FINDINGS WITH COMMON SYMPTOMS", International Journal of Current Science (IJCS PUB), ISSN: 2250-1770, Volume.12, Issue 3, pp.933-961, September 2022.</p> <p><b>1.</b> "POTENTIAL OF LOWER TESLA MRI FOR KNEE INJURIES- A CASE STUDY ", International Journal of Science &amp; Engineering Development Research (www.ijedr.org), ISSN: 2455-2631, Vol.7, Issue 8, page no.296 - 327, August-2022.</p> <p><b>2.</b> A study to evaluate information thoughts with perform of Radiographers about COVID-19 disease in integral hospital Lucknow Volume, 10/75, ISSN: 2278-</p>


	<p>8808.</p> <p><b>3. EFFECT OF RADIATION ON DNA</b> Eur. Chem. Bull. 2023, 12(Special Issue 5),162 – 173</p> <p><a href="https://www.eurchembull.com/uploads/paper/e93c11081ee50261d8de915d45f88395.pdf">https://www.eurchembull.com/uploads/paper/e93c11081ee50261d8de915d45f88395.pdf</a></p>
<b>Mr. Ajaydeep Singh Yadav</b>	<p><b>1.</b> Study To Determine The Level Of Knowledge, The Practices Followed And The Attitudes Of The General Population Towards Uv Radiation, Uttar Pradesh, India, International Journal Of Scientific Development And Research, Published In Vol 7 Issue 7, July-2022.</p> <p><b>2.</b> To Assess The Level Of Radiation Safety Awareness Among Non-Radiology Students, Uttar Pradesh, India, Indian Journal Of Applied Research, Vol-12, Issue-7, July 2022.</p> <p><b>3.</b> Potential Of Lower Tesla MRI For Knee Injuries- A Case Study, International Journal Of Scientific Development And Research, Volume 7 Issue 8, August-2022.</p> <p><b>4.</b> A Case Study To Check X-Ray Cervical Spine Findings With Common Symptoms, Volume 12, Issue 3, Page No. 933-961, September 2022,</p>
<b>Mr. Shailendra Kumar Diwaker</b>	<p><b>1.</b> Assessment of Significance of Anatomical Variations of Sphenoid Sinus on Multidetector Computed Tomography.</p> <p><b>2.</b> Evaluation of Radiologic Technology Education Programs -A Review Article (INT-JECSE) <a href="https://www.int-jecse.net/abstract.php?id=5080">https://www.int-jecse.net/abstract.php?id=5080</a> indexing SCOPUS.</p> <p><b>3.</b> An analysis of the literature on the use of deep learning to generate medical reports for chest X-rays automatically (INT-JECSE) <a href="https://www.intjecse.net/abstract.php?id=5139">https://www.intjecse.net/abstract.php?id=5139</a>.</p>
<b>Mr. Piyush Pandey</b>	<p><b>1.</b> An analysis of the literature on the use of deep learning to generate medical reports for chest X-rays automatically Volume 14, Issue 07 2022 , ISSN: 1308-5581.</p> <p><b>2.</b> Evaluation of Radiologic Technology Education Programs -A Review Article Volume 14, Issue 07 2022, ISSN: 1308-5581.</p> <p><b>3.</b> Integrative Techniques in the Health Services</p>

	Volume, 8 Issue 7, ISSN: 2456-3315.
--	-------------------------------------

**Equipment's available in the Department:**

S.NO	Name of equipment	Quantity	Photograph
1	MRI Machine	02 (3 Tesla and 0.4 tesla)	
2	Dual Energy CT scan machine 384 slices	01	

3	Ultrasound Machine	08	
	X-ray machine	05	

5	Mobile X-ray Machine	01	
---	----------------------	----	--

**Investigations**

**X-ray**

- All routine x-rays
- Mammography
- Barium Studies
- IVP
- HSG/FTR
- MCU/RGU
- Loopogram
- Sinogram
- PTBD
- Fistulogram

**CT scan**

- All CT scans non contrast and contrast enhanced e.g. CT head, CT neck, HRCT, CT thorax, Abdomen etc.
- All type of Angiography
- Triple phase imaging
- CT guided procedures.

**MRI.**

- All MRI procedure contrast and non-contrast e.g. MRCP, Angiography, DTI etc.
- MRI guided procedures

**Ultrasound**

	<ul style="list-style-type: none"><li>• All routine and special ultrasound procedure.</li><li>• Ultrasound guided procedures.</li></ul>
--	---