

# **King George's Medical University, U.P. Lucknow**

## **Faculty of Paramedical Sciences**



## **DEPARTMENT OF RADIODIAGNOSIS**

### **DIPLOMA IN CT SCAN TECHNICIAN**

**Nodal officer-Dr. Anil Rawat Assistant Professor**

**Demonstrator -Ms. Shivangi Srivastava**

**Computer Operator- Ms. Manshul Joshi**

## Diploma In CT SCAN Technician

S.NO.	BATCH 2017-2019	BATCH 2019-2021	BATCH 2020-2022
NO OF SEATS	30	38	38
NO OF ADMISSION	14	19	23
NO OF PASSED STUDENTS	14	--	--

## **Passed Student List Batch: 2017-19**

<b>Sr. No.</b>	<b>Students Name</b>	<b>Sr. No.</b>	<b>Students Name</b>
1	Jai Singh	8	Manisha Srivastava
2	Jyotima Maurya	9	Khushbu singh
3	Prem Narayan Pandey	10	Sachin Kumar Gupta
4	Ankit Kumar	11	Dev Narayan Shukla
5	Km. Savita Yadav	12	Atul Kumr
6	Priyanka Maddheshiya	13	Subodh Gautam
7	Shaifali Yagik	14	Akhilesh Kumar

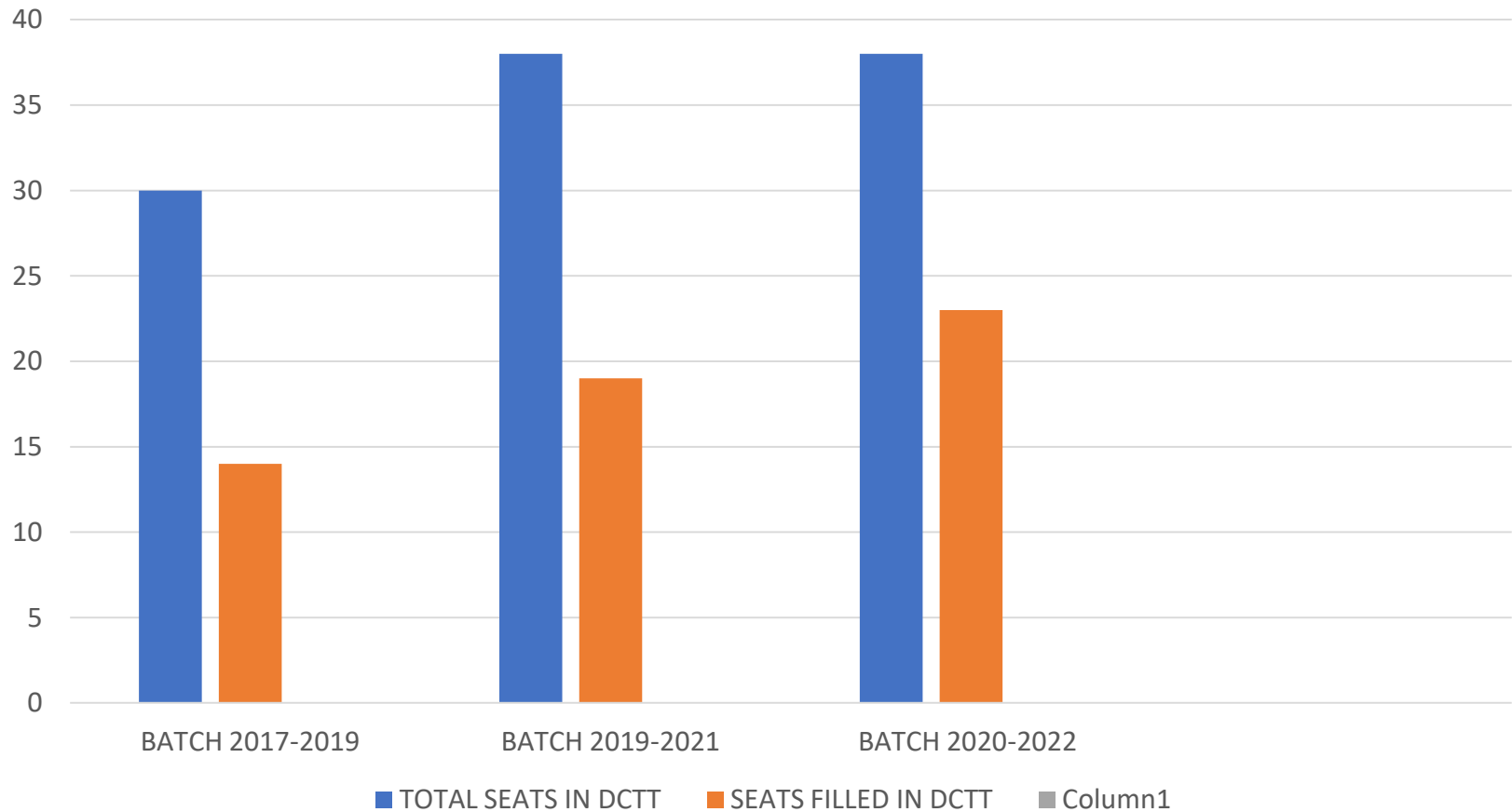
## **Student List Batch: 2019-20**

<b>Sr. No.</b>	<b>Students Name</b>	<b>Sr. No.</b>	<b>Students Name</b>
<b>1</b>	<b>NITISH CHAURASIYA</b>	<b>11</b>	<b>JUGUNOO YADAV</b>
<b>2</b>	<b>ABHISHEK PAL</b>	<b>12</b>	<b>NISHTHA YADAV</b>
<b>3</b>	<b>ADITYA CHAKRAWATI</b>	<b>13</b>	<b>BASANT KUMAR SRIVASTAVA</b>
<b>4</b>	<b>MAMTA</b>	<b>14</b>	<b>HEMANT KUMAR SRIVASTAVA</b>
<b>5</b>	<b>ZOHRA BANO</b>	<b>15</b>	<b>BHUPENDRA MANI</b>
<b>6</b>	<b>KM PRATIBHA</b>	<b>16</b>	<b>SHIVANGI SINGH</b>
<b>7</b>	<b>ANUJ KUMAR</b>	<b>17</b>	<b>KM SUMAN</b>
<b>8</b>	<b>KM JYOTI</b>	<b>18</b>	<b>KM MADHU NISHAD</b>
<b>9</b>	<b>SURAKSHA PANDEY</b>	<b>19</b>	<b>ABHISHEK KUMAR SINGH</b>
<b>10</b>	<b>SHALINI DEVI</b>	<b>20</b>	<b>ABHISHEK MAURYA</b>

## **Student List Batch: 2020-21**

<b>Sr. No.</b>	<b>Students Name</b>	<b>Sr. No.</b>	<b>Students Name</b>
1	PRAVEEN KANNOUJIYA	12	KM ANURADHA
2	SHRADDHA GAUTAM	13	SONI DEVI
3	DEEPAK KUMAR	14	KM. KUMARI LAXMI
4	SHIV KUMAR PRAJAPATI	15	RAJ KANAUIYA
5	VIKASH VERMA	16	SHRVAN KUMAR YADAV
6	SHIVAM SINGH	17	KM KAMINI RAJPUT
7	KANCHAN PAL	18	CHHAYA SHUKLA
8	SAIF ALI ANSARI	19	SHAH AALAM
9	SUSHMITA	20	SUDHANSHU RAJ PAL
10	ALOK RAJ	21	MANISH KUMAR
11	AKANKSHA SETHI	22	REKHA
23	KANCHAN LATA		

# Total Seats And Number of Admission In DCTT



# Practical Topics-

Sr. No.	Topics	
1	Preparation of patient for CT Scan .	
2	Performing all types of CT Scan.	CT- Scan Head
		CT-Scan Thorax
		CT- Scan Abdomen
		CT-Scan Orbit
		CT-Scan PNS
		HR CT Thorax
		Hepato-biliary System
3	Contrast administration & management of adverse reaction to it.	
4	Protection from radiation hazards.	
5	Assisting CT guided procedures.	
6	Developing film	
7	Record Keeping	

# Clinical Posting Schedule

S.N O.	BATC H	POSTING HOURS/DAY	POSTING ROTATION OF STUDENTS	PLACE OF CLINICAL POSTINGS	PLACE OF CLINICAL POSTINGS	PLACE OF CLINICAL POSTINGS	PLACE OF CLINICAL POSTINGS	PLACE OF CLINICAL POSTINGS
1	2017-2019	5 HOURS/DAY	MONTHLY	32 SLICE (SPIRAL CT)	64 SLICE	-- --	128 SLICE (TRAUMA)	-- --
2	2019-2021	5 HOURS/DAY	MONTHLY	32 SLICE (SPIRAL CT)	64 SLICE	128 SLICE (OPD)	128 SLICE (TRAUMA)	16 SLICE RADIOTHERAPY (CT STIMULATOR )
3	2020-2022	5 HOURS/DAY	MONTHLY	32 SLICE (SPIRAL CT)	64 SLICE	128 SLICE (OPD)	128 SLICE (TRAUMA)	16 SLICE RADIOTHERAPY (CT STIMULATOR )



# Modified Lecture Schedule – First Year

King George's Medical University, U.P. Lucknow  
KGMU Institute of Paramedical Sciences  
Department of Radiodiagnosis  
Diploma In CT-Scan Technician  
Paramedical Batch-2020-21  
1<sup>st</sup> Year



1.	Radiologic Physics, Electromagnetic radiation, Neil's Bohr Atomic model, <u>Atomic number</u> , Mass number, Isotopes, Valency.
2.	Ionization.
3.	X-Ray Physics, Discovery of X-Ray, <u>Roentgenology</u> , <u>Fluoroscopy</u> , Nature of X-Ray. Wave length and Frequency Sources of X-Ray, X-Ray Tube & x ray control <u>panel</u> , <u>X ray circuit</u> .
4.	Necessary Conditions for the Production of X-Ray.
5.	Efficiency of X-Ray Production, properties of X-Ray, Quality and Quantity of X-Ray.
6.	Basics of CT PHYSICS, Basic of multi slice C.T. physics.
7.	Radiation Dose, Radiation Hazards, Radiation Protection.
8.	Dark Room.
9.	Concepts of Radiographic Positioning.
10.	Scaphoid & hand.
11.	Elbow & shoulder join
12.	Foot AP & oblique.
13.	Hip & Knee joint AP.
14.	Pelvis AP.
15.	Chest AP, PA & Lat
16.	Sub Mento vertical & PNS
17.	Skull and Towne's
18.	Abdomen Erect

19	IVP
20	MCU/RGU/T tube cholangiogram/ HSG.
21	Sinogram.
22	Contrast- Media, Radiographic Contrast, Density, Detail.
23	Types of film, Cassette, Intensifying Screen.
24	Safe Light, Developer and Fixer, Manual Processing.
25	Causes of film fog, Factors of X-Ray.
26	CT slices- Axial, coronal and sagittal sections of brain and Spine.
27	CT slices- Axial, coronal and sagittal sections of Orbit.
28	CT slices- <u>Axial</u> , <u>coronal</u> and sagittal sections of PNS.
29	CT slices- <u>Axial</u> , <u>coronal</u> and sagittal sections of Neck.
30	CT slices- Axial, coronal and sagittal sections of Thorax.
31	CT slices- Axial, coronal and sagittal sections of Abdomen.
32	CT slices- Axial, coronal and sagittal sections of Pelvis.
33	CT slices- Axial, coronal and sagittal sections of Limbs.
34	CT slices- Axial, coronal and sagittal sections of Hepatobiliary System.
35	CT slices- Axial, coronal and sagittal sections of KUB.

**Dr. Anil Rawat**  
Assistant Professor  
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**Ms. Shivangi Srivastava**  
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Department of Radiodiagnosis  
Diploma in CT-Scan Technician  
Paramedical Batch-1<sup>st</sup> Year  
Practical Topics



S.No	Topics
1.	Preparation of patient for CT Scan.
2.	Performing all types of CT Scan.
3.	Contrast administration & management of adverse reaction to it.
4.	Protection from radiation hazards.
5.	Assisting CT guided procedures.
6.	Developing film
7.	Record Keeping

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# Modified Lecture Schedule – Second Year

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KGMU Institute of Paramedical Sciences  
Department of Radiodiagnosis  
Diploma in CT-Scan Technician  
Lecture Schedule of 2<sup>nd</sup> Year Batch -2019-2021

S. No	Topics
1.	Basic Principle of CT scan
2.	Discovery & generation of CT scan
3.	Geometry 1 <sup>st</sup> /2 <sup>nd</sup> /3 <sup>rd</sup> /4 <sup>th</sup>
4.	Collimators
5.	Artifacts
6.	CT Number
7.	Attenuation Values
8.	System Components of Helical or spiral CT-Scan
9.	Gray Scale
10.	MIP
11.	MPR
12.	VRT
13.	Angiography
14.	Pitch
15.	SSD
16.	CT Myelogram / Cisternogram
17.	CT Guided FNAC / biopsy
18.	CT Enteroclysis
19.	CT IVP
20.	Images Reconstruction Algorithm
21.	MDCT cardiac CT/64/128 Slice CT
22.	PET CT
23.	Various Position used in during CT Scan
24.	Other special CT procedure & common interventions
25.	Dual Phase CT
26.	3D CT Reconstruction
27.	CT Angiography, mainly brain
28.	Types of film, Cassette, Screen, Developer, Fixer etc.
29.	CT slices-Axial, Coronal and Sagittal sections of Brain and Spine.
30.	CT slices-Axial, Coronal and sagittal sections of Orbit.

31.	CT slices-Axial, coronal and sagittal sections of PNS.
32.	CT slices-Axial, coronal and sagittal sections of Neck.
33.	CT slices-Axial, coronal and sagittal sections of Thorax.
34.	CT slices-Axial, coronal and sagittal sections of Abdomen.
35.	CT slices-Axial, coronal and sagittal sections of Pelvis.
36.	CT slices-Axial, coronal and sagittal sections of Limbs.
37.	CT slices-Axial, coronal and sagittal sections of Hepato-biliary System.
38.	CT slices-Axial, coronal and sagittal sections of KUB

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Department of Radiodiagnosis  
Diploma in CT-Scan Technician  
Paramedical Batch-I<sup>st</sup> Year  
Practical Topics

S.No	Topics
1.	Preparation of patient for CT Scan.
2.	Performing all types of CT Scan.
3.	Contrast administration & management of adverse reaction to it.
4.	Protection from radiation hazards.
5.	Assisting CT guided procedures.
6.	Developing film
7.	Record Keeping

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# Posting In Different Departments-



King George's Medical University, U.P. Lucknow  
Department of Radiodiagnosis

King George's Medical University, U.P. Lucknow  
Department of Radiodiagnosis  
KGMU, Institute of Paramedical Sciences  
Diploma in CT-Scan Technician  
First Year Batch - 2019-20  
Posting Schedule (18.02.2021 to 04.03.2021)

64 Slice CT Timing -09:00 am to 04:00 pm	Trauma (128 Slice) Timing -09:00 am to 05:00pm	32 Slice Spiral CT-Scan Centre Timing -09:00 am to 05:00pm	Radiotherapy Timing:- 09:00 am to 04:00pm	OPD 128 Slice Timing:- 09:00 am to 05:00pm
Bhupendra Singh	Suraksha Pandey	Pratibha	Madhu Nishad	Mamta
Jyoti	Shalini Pandey	Jugnoo Yadav		Nishtha Yadav
		Abhishek Maurya		Shivangi Singh
		Abhishek Singh		Anuj Kumar

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King George's Medical University, U.P. Lucknow  
Department of Radiodiagnosis

KGMU Institute of Paramedical Sciences  
King George's Medical University  
Diploma in CT scan Technician

Posting Schedule (1 August to 31 August) Posting time - (11:10Am to 1:00Pm)

Sr	64 Slice CT	CT Scan(Spiral)(Campus)	CT Scan(Trauma centre) 64 Slice CT scan
1.	Savita Yadav	Kushu Singh	Jyotima Maurya
2.	Shafiq Yaqub	Manish Srivastava	Priyanka Madheshya
3.	Himra Gauran	Akhilesh Kumar	Prem Narayan Pandey
4.	Sachin Kumar	Dev Narayan Shukla	Ankit Kumar
5.	Suhodh Gauran	Anil Kumar	Jay Singh

Copy to - 1- Incharge, Trauma Centre KGMU, UP Lucknow  
2- Department of Radiodiagnosis  
3- Dean KGMU Institute of Paramedical Sciences.

**Dr. Anil Parihar**  
Assistant Professor  
Department of Radiodiagnosis  
Assistant Dean  
KGMU Institute of Paramedical Sciences  
KGMU, U.P. Lucknow

**Prof. Neera Kohli**  
Head of Department  
Department of Radiodiagnosis  
King George's medical University  
Lucknow



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Department of Radiodiagnosis

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Diploma In CT-Scan Technician  
Posting Schedule (06.01.2021 to .31.01.2021)  
Batch 2019-2021

64 Slice CT Timing:- 09:00am to 04:00pm	Trauma (128 Slice) Timing:- 01:00 pm to 08:00pm	32 Slice Spiral CT-Scan Centre Timing:- 01:00 pm to 08:00pm	Radiotherapy Timing:- 09:00 am to 04:00pm	OPD 128 Slice Timing:- 09:00 am to 04:00pm
Suraksha Pandey	Rasmita Srivastava	Aditya Chakrawati	Shivangi Singh	Zohra Bano
Bhupendra	Anuj Kumar		Pratibha	Madhu
Abhishek Singh	Abhishek Pal		Mamta	Shalini Mishra
Jugnoo Yadav	Jyoti			Abhishek Maurya
Hemant Srivastava				

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**Prof. Anil Parihar**  
Professor  
Department of Radiodiagnosis  
Assistant Dean  
KGMU, Institute of Paramedical Sciences  
KGMU, Lucknow

**Prof. Neera Kohli**  
Head Of Department  
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**Posting Schedule of Internship Students**

S.no	Name	Date	Posting Place
1.	Dev Narayan Shukla	27.04.2021 to 27.05.2021	Spiral CT scan
2.	Atul Kumar	20.04.2021 to 27.04.2021	Gandhi ward (Covid) Morning
3.	Dev Narayan Shukla	01.06.2021 to 14.06.2021	Gandhi ward (Covid) Evening
<b>Timing: - (09:00 am to 04:00 pm)</b>			
4.	Savita Yadav	03.06.2021 to 17.06.2021	Trauma (128 Slice)

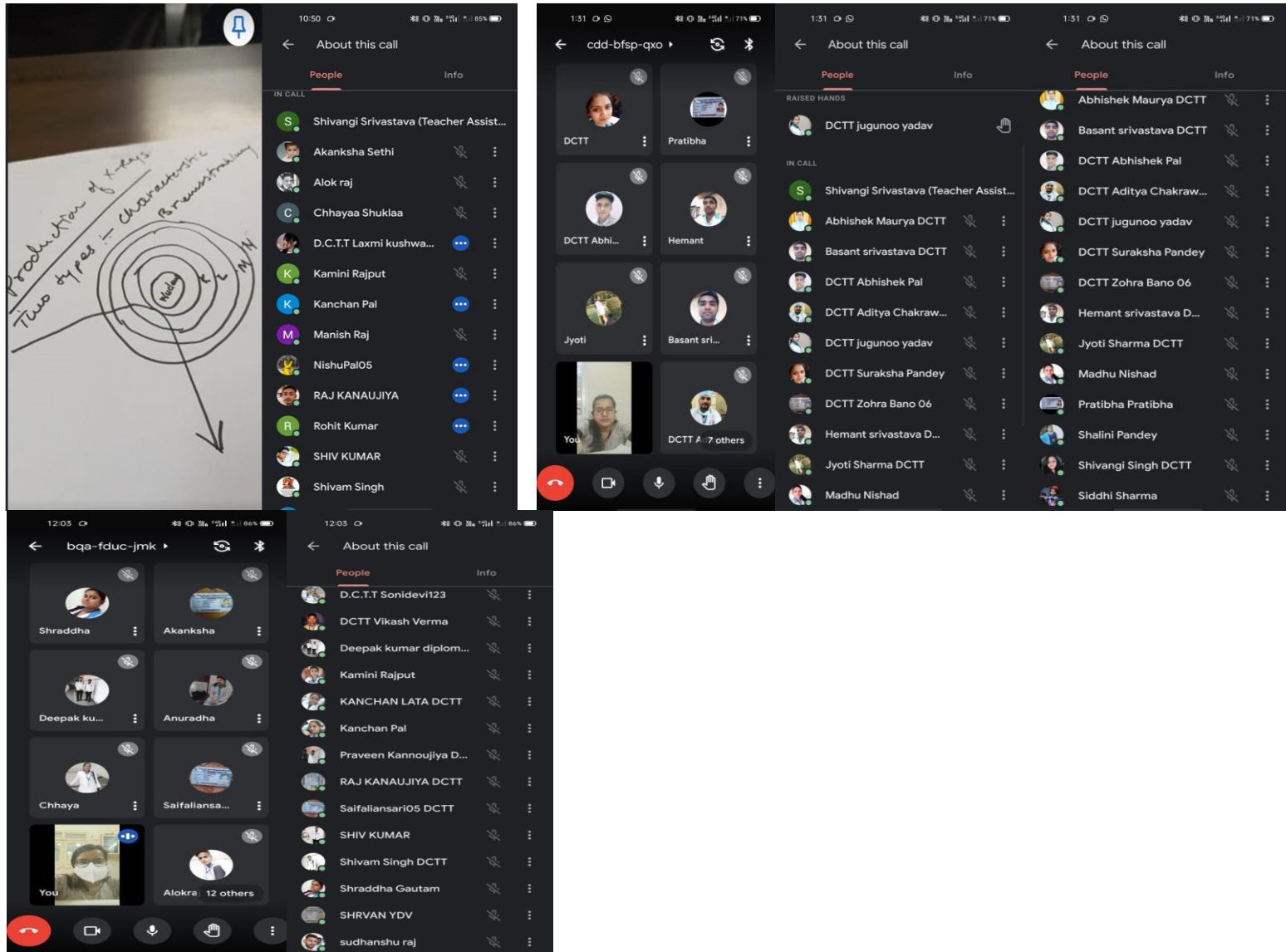
**Dr. Anil Rawat**

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# Teaching Facility

S. No.	CLASS ROOM	SEMINAR ROOM	DEMONSTRATION MACHINE	AVAILABILTY OF DRINKING WATER	EXTRA ACADEMIC ACTIVITIES	CELEBRATION	NO. OF STUDENTS PLACED IN HIGHER INSTITUTION
1.	1	1	5	2	INTERNATIONAL CONFERENCE/ WEBINAR'S	TEACHERS DAY	BATCH-2017-2019 (10/14)
					INTERNATIONAL DAY OF RADIOLOGY	FRESHERS PARTY	
					ENTREPRENEURSHIP		

# Online Classes Conducted Due To Covid-19 Pandemic



# Seminar Room and Class Room



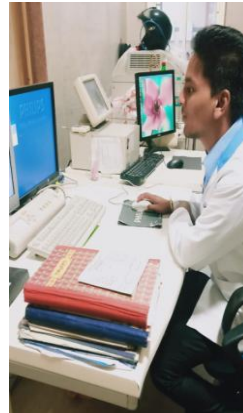
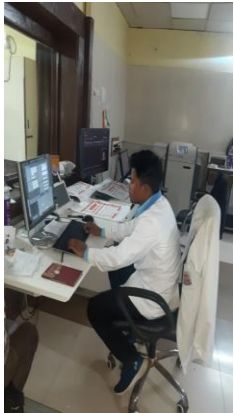


# Demonstration Machine

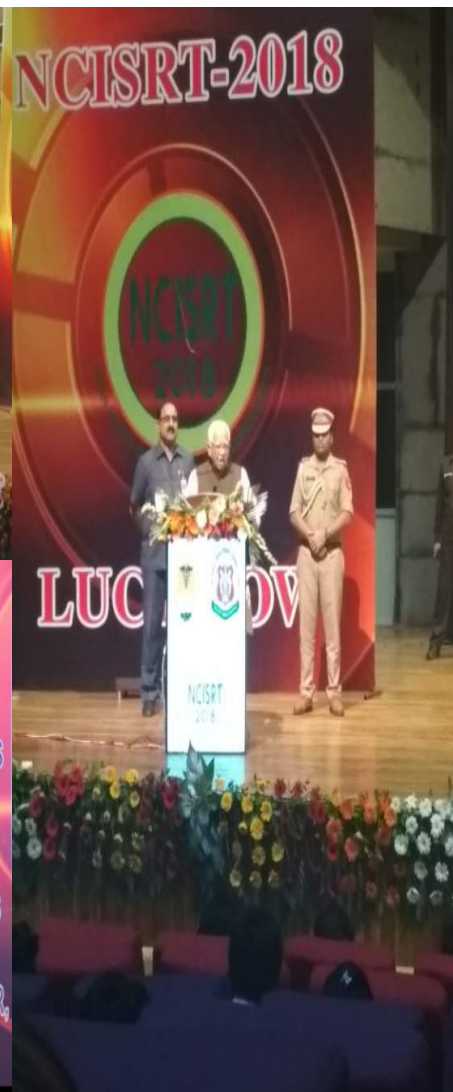




# Work Place Exposure of Students



# National Conference/Webinar





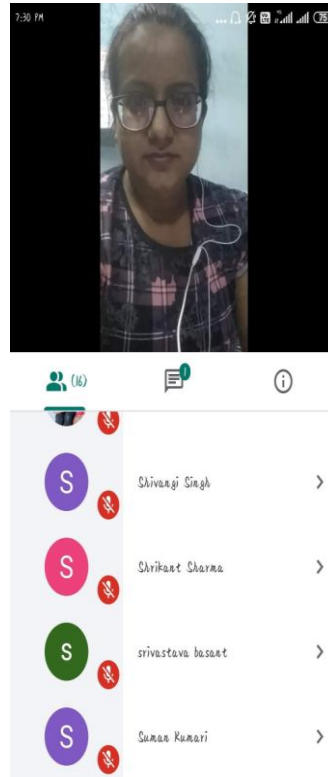
# Celebrations



# Entrepreneurship Programme-



# Remedial Class



# Availability of Drinking Water



# Links

- <https://goo.gl/maps/ubHJdr9gkDYg4Z3UA> (Teaching Block Kalam Centre)
- <https://goo.gl/maps/FxhAtrat76bGxw1FA> (Administrative Block)
- <https://goo.gl/maps/U3Px1XR5YHCKjHqy5> (Cafeteria)
- <https://goo.gl/maps/QZ9s9xnvSiVMJXyi7> (Brown Hall KGMU)
- <https://goo.gl/maps/9v44B1DRmSzpbDww8> (Atal Bihari Vajpayee Convention Centre)
- <https://goo.gl/maps/i7mB1CFGDoChcv41A> (Department Of Pathology)
- <https://goo.gl/maps/xCoMkR5eN8qAPrat7> (Department Of Microbiology)
- <https://goo.gl/maps/GVFrVfMryLVxsL7k7> (Gandhiward KGMU)
- <https://goo.gl/maps/85kwouaPsGd2HEim6> (Department Of General Surgery )
- <https://goo.gl/maps/TvExugsrAZ7GFRSPA> (Lari Cardiology)
- <https://goo.gl/maps/ziERanEDFtr8Kg1W8> (Radio diagnosis)
- <https://goo.gl/maps/KdU3Gh9DaLZzhfzc7> (Ophthalmology)



## Links-

<https://goo.gl/maps/FwyfWSYgmPQk8EiS9> -(Shatabdi Phase2)

<https://goo.gl/maps/YRtaDMRfbPPVSpdr9> -(Trauma Centre)

<https://goo.gl/maps/cKyynmZSJFccZWZ49> -(Shatabdi DBTT)

<https://goo.gl/maps/B3ejYAaUyyHrBbDX6> -(Sp Ground)

<https://goo.gl/maps/VWmLjbKuugaexKAP8> (Department Of Community Medicine )

<https://goo.gl/maps/S7yCAfHKdUx57bV19> ( Department Of Physical Medicine And Rehabilitation )

<https://goo.gl/maps/C3BmB2gU1oYLjAQR7> ( Department Of Anatomy )