

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

## **Faculty of Paramedical Sciences**



### **DEPARTMENT OF RADIOTHERAPY**

### **DIPMOLA IN RADIOTHERAPY TECHNICIAN**

**Nodal Officer - Dr. Navin Singh, Professor**

**Demonstrator - Ms. Rachna Verma**

**Demonstrator - Ms. Misha Vargese**

**Computer Operator- Ms Neha Singh**

## B.Sc In Radiotherapy Technology

Batch	Total No. of Seat	No. of Admitted Student
2018	5	4
2019	5	5
2020	5	5

# DIPLOMA IN RADIOTHERAPY TECHNICIAN

Batch	Total No. of Seat	No. of Admitted Student
2017-2019	30	28
2019-2021	38	31
2020-2022	38	20

## Passed Student List Batch: 2017-19

Sr.No	Student Name	Sr.No	Student Name
1	Preeti Maurya	14	Shalu
2	Pratima Singh	15	Anil Kumar Yadav
3	Jyoti Verma	16	Sumit Kumar
4	Alia Siddiqui	17	Sikha Singh
5	Kali Sankar	18	Ruchi Verma
6	Shadhna Yadav	19	Deepika Bhardwa
7	Shikha Patel	20	Pooja Rawat
8	Pranjali Verma	21	Rahul
9	Karshima	22	Ved Parkash
10	Priyanka Gautam	23	Akanksha
11	Rahul Yadav	24	Archana Buddha
12	Ashutosh Singh	25	Kanchan Soni
13	Ravi Sharma		

# Student List Batch: 2019-20

Sr.No	Student Name	Sr.No	Students Name	Sr.No	Students Name
1	RAJAT KUMAR SINGH	12	SNEHA MAURYA	22	AMIRA KHATOON
2	RAVI SHANKAR PANDEY	13	PREMLATA	23	SHWETA TIWARI
3	ALOK KUMAR TRIPATHI	14	SIDDHARTH SHEKHAR	24	ANKITA VISHWAKARMA
4	KM APARNA KESHARI	15	VISHAL KUMAR YADAV	25	RISHAB SHUKLA
5	ABHISHEK PATEL	16	RAM KISHAN	26	ARJUN SINGH
6	SHIVAM PANDEY	17	AJAY KUMAR PATEL	27	MAHIMA RAJ
7	ANURAG SINGH	18	HIMANSHI AGRHARI	28	SAURABH PANDEY
8	SHIVALI BAJPAI	19	KM ANKITA MADHESHIYA	29	ANKITA SHUKLA
9	RABITA KUMARI	20	PREETI YADAV	30	UPASANA RAWAT
10	KM SHAMBHAVI MISHRA	21	SANGHMITRA GAUTAM	31	NAMITA KUMARI
11	KM KHOOSHBOO				

## Student List Batch: 2020-21

Sr.No	Student Name	Sr.No	Students Name
1	Arundhati	11	Rajkumari Verma
2	Aradhana	12	Mansi
3	Diksha Yadav	13	Pallavi Mishra
4	Shaivya Verma	14	Sunil
5	Vimal Kishor	15	Avnish
6	Nidhi Mishra	16	Soni Prabhakar
7	Atul Km. Bharati	17	Nisha
8	Sahiba Warsi	18	Salil Awasthi
9	Pradeep Km. Verma	19	Rishabh Kumar Singh
10	Monika Roy	20	Babita

# Posting In Radiotherapy Department, From - 09:00 Am To 12:00 Pm & 4:00 Am To 8:00 Pm

Sr. No.	Department
1.	Department of Radiotherapy

KGMU, Faculty of Paramedical Sciences U.P.,

# Modified Lecture Schedule

S.No.	Topic
1	Radiation Unit : Kerma, Bequerel, Ionisation& Non Ionisation, Dose, Radioisotope, Equivalent Dose, Activity, Exposure Roentgen
2	Attenuation, HVL, TVL, Sheilding Interaction of Matter : Compton Effect, Photoelectric Effect, Pair Production
3	Radiotherapy : EBRT Linac and cobalt Unit
4	X-Ray Production X-Ray, Properties of X-Ray
5	Characteristic X-Rays and Braheumsstrahlung X-Ray
6	X-Ray Tube
7	X-Ray Spectrum
8	Radiotherapy EBRT (Linac)
9	Cobalt Unit Machine
10	IBRT (Brachytherapy)
11	Radium and Its Substitute
12	Phantom Material and Various Type of Phantom
13	Dose Build UP, PDD, TAR, BSF
14	TPR, TMR, SMR, SSD, SAD
15	Isodose Distribution: Isodose Curve, Isodose Chart
16	Beam Modifying Device
17	Radioactivity
18	Radiation Safety Alarm
19	Designs of Banqar, Maze Area
20	Secondary primary Radiation



1	Physics of Diagnostic Radiology
2	Recent advances in imaging technology
3	CT scan, conventional, spiral(helical), Multislice
4	Computerized Radiography
5	Digital Radiotherapy
6	Picture Archiving Communication System(PACS)
7	Mammography
8	Acquisition of patient data
9	Shielding Blocks: block thickness, block divergence, field shaping
10	Parallel opposed, small beam directed therapy and wedge fields in head and neck cancers. Treatment techniques in the treatment of brain, pituitary, oral cavity, larynx hypo/oropharynx , maxillary antrum, nasopharynx, thyroid , tonsil, lip etc.
11	Treatment techniques in Carcinoma breast, esophagus, bladder, gynecological cancers.
12	Positron Emission Tomography (PET)
13	Different types of cameras e.g. laser, photography etc.
14	Radio isotopes
15	QA in Diagnostic Radiology
16	Isodose curves, isodose charts,. Influency parameters of isodose curves
17	Treatment techniques in medulloblastoma, Ca Lung, bone, lymphoma ,with special emphasis on mantle field irradiation, Rx techniques in Ca, prostate , ophthalmic tumours. Hemi body, whole body, irradiation techniques using photons and electrons
18	Basic terminology of brachytherapy , brachytherapy sources properties of idea brachytherapy sources
19	Surface mould dosimetry system
20	Stockholm system
21	Paris system
22	Manchester system
23	Applicators of Ca Cx
24	Exposure rate constant exposure rate and effect of inverse square law, sievert integral to calculate
25	Special techniques SRS,SRT,IMRT,IGRT and Tomotherapy Gamma Knife QAOF Gamma knife
26	X- Knife modification of LINAC , QA procedures , Cyber Knife : Principles and applications
27	Design and working of MLC and MMLC. QA procedures of MLC , MMLC

# Teaching Training Module

## KING GEORGE'S MEDICAL UNIVERSITY

### Diploma in Radiotherapy

#### Annual Calendar 2021



Date	Presentation	Test	Project	Awareness Program	Demonstration
5/02/2021					✓
6/02/2021		✓			
10/02/2021	✓				
13/02/2021		✓			
18/02/2021			✓		
20/02/2021		✓			
22/02/2021				✓	
26/02/2021					✓
27/02/2021		✓			
5/03/2021					✓
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10/03/2021	✓				
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30/04/2021					✓
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7/05/2021					✓
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12/05/2021	✓				

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15/05/2021		✓			
20/05/2021			✓		
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17/12/2021			✓		
19/12/2021		✓			
25/12/2021					✓
26/12/2021		✓			
28/12/2021				✓	

# Classroom



# Seminar Hall with Projector



# Availability Of Drinking Water



# Format of Posting Schedule



## KING GEORGE'S MEDICAL UNIVERSITY U.P., LUCKNOW

### Department of Radiotherapy Diploma in Radiotherapy Technician Paramedical Batch 2019-20 1<sup>st</sup> Year

#### Diploma in Radiotherapy Technician Posting

Date: (16<sup>th</sup> March to 31<sup>st</sup> March 2021) Time: 9:00 AM to 12:00 PM

Conventional CT	THE 780E	CT Simulator (Shatabdi Phase-2)	Bhabha tron	Brachy Therapy	LINAC	Mould Room
Namita	Anurag	Rajat	Rabita	Ankita Shukla	Aparna	Abhishek
Shweta	Preeti	Alok	Saurabh	Upasana	Ajay	Himanshi
.....	.....	.....	.....	.....	.....	Ankita Madhesiya

(Miss Rachna Verma)  
Tutor  
Diploma In Radiotherapy  
Technician  
KGMU

(Dr. Navin Singh)  
Nodal Officer  
Diploma In Radiotherapy Technician  
KGMU

(Prof. M.L.B. Bhatt)  
Head of Department  
Department of Radiotherapy  
KGMU



# Demonstration





# Extra Activities

## Bio medical waste (BMW) management workshop



## Departmental Presentation



# Plantation Activity-

King George's Medical University (UP, Lucknow)

Gandhi  
Jayanti  
Plantation



DRT-1st year

Ankita Shukla



KGMU INSTITUTE OF  
PARAMEDICAL SCIENCES



Plantation on occasion of  
gandhi  
Department of  
Radiotherapy

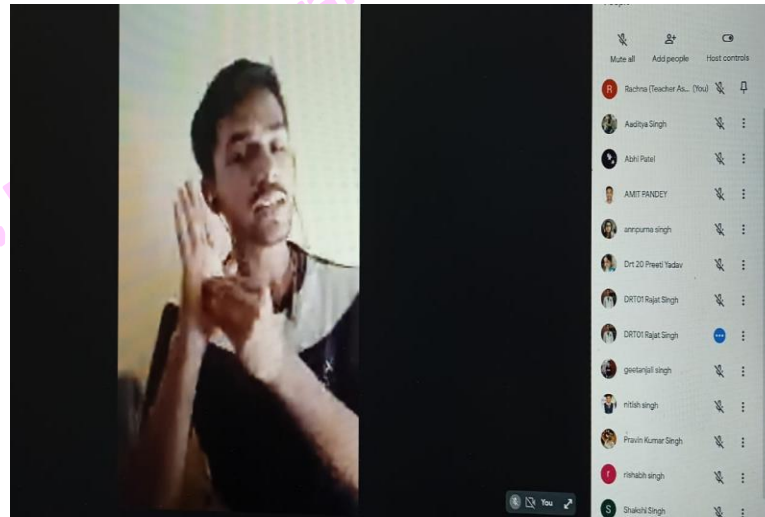


Department of  
Radiotherapy

# Voters Day



# Online Covid Awareness Program





# Conference

## Delhi AIIMS Conference SGPGI Conference



# 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 )