

DEPARTMENT OF RADIOLOGY & IMAGING
U.C.M.S & G.T.B. HOSPITAL
DILSHAD GARDEN, DELHI - 110095

No.MC/Radiol./2018/1076

Dated : 13.09.2018

The Principal,
UCMS & GTB Hospital,
Delhi-110095.

U.C.M.S. & G.T.B. HCS. SHAHADARA, DELHI - 110095
14 SEP 2018
Diary No. 4719
File No.

Sir,

Please find enclosed herewith xerox copies of teaching schedules of B.Sc. and M.Sc. courses for the year 2018. This is for your information and record.

Lalendra Upreti

(Dr. Lalendra Upreti)
Director Prof. & Head,
Department of Radiology

A.K. Srivastava
13.9.2018

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cc: HOD (DBMI) - for display on
College website

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14.9.18

Mr. Anil Niwasi J.L.O.

*A. A.K. Srivastava may please
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18/9/18*

*Email Address:
dbmi*

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a.kniwasiya@gmail.com

Dr. A. K. SRIVASTAVA
Principal Cum Head
Dept. of Radiology
UCMS & GTB Hospital
Dilshad Garden, Delhi-110095

Department of Radiology
UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL
LECTURE SHCHEDULE B. Sc (MT) (RADIOGRAPHY) Part I Paper III/ V& VI 2018-19
M.Sc. Part-1 (1st Semester) Paper - I

Time : 11am-12 pm Venue: Dept. Of Radiology

Day: Thursday

TOPICS	TEACHER	Date
1. Introduction about various imaging modalities & role of radiographer in medical imaging	Dr. AK Srivastava	30/08/2018
2. Structure of atom, introduction to EM radiation, wavelength & quantum relationship with Peak voltage.	Dr. AK Srivastava	06/09/2018
3. Discovery of x-rays, properties of x-rays, condition necessary to generate x-rays, x-ray units. Basic Physics electricity & magnetism, Ohm's law, conductor, insulator, semi conductor, electric power.	Dr. AK Srivastava	13/09/2018
4. Magnetism, electro-magnetism, Dia, Para & Ferromagnetic materials. EMI, self & mutual induction, AC generators..	Dr. AK Srivastava	20/09/2018
4 Radiation units	Dr. AK Srivastava	27/09/2018
5. Generation of x-rays continuous & characteristics x-ray.	Dr. AK Srivastava	04/10/2018
6. X-ray Tube Types, Construction, line focus principle, methods to prevent tube failure.	Dr. AK Srivastava	11/10/2018
7. Types of tubes	Dr. AK Srivastava	25/10/2018
8. Construction & working principle of transformer & auto transformer used in x-ray circuit, Measurement of voltages special kV meters Measurement of tube current in milli & microcircuit.	Dr. AK Srivastava	01/11/2018
9. Component & controls in x-rays circuits, HT transformer, rectification of HT, control of kV, kV indication.	Dr. AK Srivastava	08/11/2018
10. High Tension generators. The self rectified high tension circuit, the half wave, form value, full wave, 3 phase, 6 pulse, 3 phase 12 pulse. Constant potential generator, high/medium frequency, falling load generator	Dr. AK Srivastava	15/11/2018
11. Portable and mobile x-ray equipment. Condenser discharge, battery powered x-ray generation.	Dr. AK Srivastava	22/11/2018
12. Filament circuit & control of tube current exposure timer switches.	Dr. AK Srivastava	29/11/2018
13. Fluoroscopic equipment: Structure of a fluorescent screen. The fluoroscopic image. The fluoroscopic tube spot film devices and exposure rate, protective measurement and physiology of vision.	Dr. AK Srivastava	06/12/2018
14. Image intensifier: IITV, its design, its application the television process and television tube, recording of the intensified image, TV monitor, video tape recording time radiographic cameras.	Dr. AK Srivastava	13/12/2018
15. Generation of x-rays continuous & characteristics x-ray.	Dr. AK Srivastava	20/12/2018
16. X-ray spectrum, factor affecting x-ray spectrum.	Dr. AK Srivastava	27/12/2018
18. Interaction of x-rays with matter, coherent, Compton & photoelectric effect and pair production & photodisintegration.	Dr. AK Srivastava	03/01/2019
18. X-ray attenuation HVL, TVL.	Dr. AK Srivastava	10/01/2019
19. Scattered radiation and methods to reduce it. Collimator, filters BPL.	Dr. AK Srivastava	17/01/2019
20.. Grids design, parameters Grids types. Movements of Grids.	Dr. AK Srivastava	24/01/2019
21. Measurement of radiation	Dr. AK Srivastava	31/01/2019

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Department of Radiology
UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL
LECTURE SHCHEDULE B.Sc.(MT) (RADIOGRAPHY) Part III Paper V & VI
2018-2019 M.Sc. Part-1 2nd Semester Paper 02 & 03

Subject: Recent advances in Medical imaging and Contrast Media

2:pm-3:30pm Venue: Dept. Of Radiology

Thursday

TOPIC	TEACHER	Date
1. MR Instrumentations	Dr.AK Srivastava	07/02/2019
2. MR contrast agents	Dr. AK Srivastava	14/02/2019
3. MR Pulse sequences Spin Echo (Single Multiple , multislice)	Dr.AK Srivastava	21/02/2019
4. MR pulse sequences Inversion recovery and Gradient Echo	Dr.AK Srivastava	28/02/2019
5. MR angiography (TOF & PCA)	Dr.AK Srivastava	07/03/2019
6. Diffusion, Perfusion and BOLD Imaging	Dr.AK Srivastava	14/03/2019
7. MR Artifacts	Dr. AK Srivastava	21/03/2019
8. CT Generations	Dr. AK Srivastava	28/03/2019
9. Spiral CT Scan - basic principles Multi slice CT	Dr. AK Srivastava	04/04/2019
11. CT angiography., SSD & MIP display	Dr. AK Srivastava	11/04/2019
12. CT artifacts	Dr. AK Srivastava	18/04/2019
13. Doppler frequency shift	Dr. AK Srivastava	25/04/2019
13. Continuous and pulse wave Doppler	Dr. AK Srivastava	02/05/2019
14. Duplex scanning , Colour flow imaging	Dr. AK Srivastava	09/05/2019
15. US contrast agents , Tissue harmonic imaging	Dr. AK Srivastava	16/05/2019
16. 3 D Ultrasonography, sono CT	Dr. AK Srivastava	23/05/2019
18. Mammography - equipments and techniques	Dr. AK Srivastava	30/05/2019
18. Xeroradiography	Dr. AK Srivastava	06/06/2019
19. Digital subtraction angiography	Dr. AK Srivastava	13/06/2019
20. Computed Radiography & digital radiography	Dr. AK Srivastava	20/06/2019
21. PACS& Teleradiography & DEXA	Dr. AK Srivastava	27/06/2019

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List of Experiments B.Sc.(Medical Technology) (1st year) 2018-2019

Demonstration by Mr Mohit

**Time: 2 :pm-3:30 pm (Tuesday) one Monday demonstration next Monday
Practical (Total practical hours : 22)**

1. To check congruence between radiation field and optical field using optical & radiation field alignment test tool.
2. To check the alignment of radiation beam using beam alignment test tool.
3. To check perpendicularity of X-ray beam to the image receptor.
4. To check kVp accuracy using digital kVp meter.
5. To evaluate total filtration of an X-ray tube using HVL method.
6. To measure effective focal spot sizes of x-ray tube using bar pattern test tool.
7. To survey the operation of an X-ray unit for deficiency in radiation safety.
8. To check the radiation protection level diagnostic fluoroscopic installation.
9. To check the integrity of lead apron using radiation survey meter.
10. To check the consistency of radiation output of various machines by using pocket dosimeter.
11. To verify inverse square law by using pocket dosimeter.

List of Experiments B.Sc.(Medical Technology) (2nd year) 2018-2019

Day : Wednesday Teacher : Dr A.K.Srivastava

EXPERIMENTS (2nd year)

1. Test the safeness of a safe light
2. Test the given cassette for proper film screen contact
3. To check the consistency of mA loading station.
4. To check the consistency of timer.
5. To check the consistency of output
6. To evaluate image quality of a given film in terms of speed and contrast of the film
7. Test the protection of unexposed x-ray film
8. Test the beam alignment and collimation of fluoroscopy unit.
9. Test the focal spot size of fluoroscopy tube.
10. Test the alignment of grid using grid alignment test tool.
11. Test the high contrast resolution of fluoroscopic unit using high resolution contrast.

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Department of Radiology
UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL
LECTURE SHCHEDULE : M.Sc. (MIT) Part I (1st semester) Paper 2
Subject: Basic Electronics and computers Time: 2 pm -3.30pm Venue: Dept. Of
Radiology (Tuesday)

S. No	TOPIC	TEACHER	DATE
1	Radiography & Mathematics Principle of Radiography	Dr. A.K Srivastava	03/09/2018
2	Computer in medical imaging, storage and transfer of data in computer	Dr. A.K Srivastava	10/09/2018
3	Probability and nature of error, propagation of error	Dr. A.K Srivastava	17/09/2018
4	Principle of computer application in radiology and bio-statics	Dr. A.K Srivastava	24/09/2018
5	Machine representation of data, number and bases, and logic operation	Dr. A.K Srivastava	01/10/2018
6	Computer storage of data and devices, processing and display of digital image	Dr. A.K Srivastava	08/10/2018
7	Complementary metal oxide semiconductor, RAM, ROM, digital imaging processing	Dr. A.K Srivastava	15/10/2018

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UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL
LECTURE SHCHEDULE: **M.Sc. (MIT) Part I (1st semester) Paper 2**
Year 2018-19

Subject: Biostatistics Time: 2 pm -3.30pm Venue: Dept. Of Radiology (Tuesday)

S. No	TOPIC	TEACHER	DATE
1	Numerical description of data: mean, median, mode	Dr A.K. Srivastava	22/10/2018
2	Simpler linear regression and correlation least squares method	- do -	29/10/2018
3	Estimating model parameters, residual sum of squares	- do -	05/11/2018
4	Probability theory, baye's formula for testing hypothesis	- do -	12/11/2018
5	Sampling theory and methods Z scores, cal. and application	- do -	19/11/2018
6	Chi-square test, ANOVA, student's test	- do -	26/11/2018
7	Snedecor's F and Z distribution, central limit theorem	- do -	03/12/2018
8	Parametric tests of association: Pearson's product moment R	- do -	10/12/2018

These dates are tentative and can be changed as per convenience of Teacher or at the request of students for any change in dates .

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UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL
LECTURE SHCEDULE M.D. Radiology 2018-2019

Subject: Radiation Physics and Medical Imaging Physics

Venue: Conference Room Dept. Of Radiology

Teacher: **Dr. Ajai Kumar Srivastava** Physicist (Dept of Radiology)

Time: 12 to 1 PM

Days

Saturday

S. NO.	TOPICS	DATE
1.	Basic of Magnetic Resonance Imaging; Concept about Magnetic moment & nuclear magnetism Precession and Tissue Magnetization excitation & resonance Relaxation T1 and T2 relaxation Times Spin echo Techniques T1 weighted and T2 weighted Image Contrast	08/09/2018
2.	Image Formation: Fast Fourier transformation Slice selection, phase encoding frequency encoding gradients Pulse sequences: Fast Spin Echo Techniques Pulse sequences: Inversion recovery (FLAIR, STIR)	15/09/2018
3.	Gradient Recalled Echo GRASS, EPI, FISP, FLASH etc. MRA: Phase Contrast and Time of Flight Techniques Diffusion and Perfusion MR Imaging	22/09/2018
4.	Production of X-rays Demonstration cum lecture on X-ray Tube ,Types of x-ray Tube	29/10/2018
5.	X-ray Generators	06/10/2018
6.	X-ray interaction , Radiation units , Personnel Monitoring and Staff dose Demonstrations on Film Badge ,TLD badge Protective Devices	13/10/2018
7.	Principles of Computed Tomography Concepts of Different interactions Steps in the formation of image: Scanning and data acquisition phase, Image reconstruction, CT Numbers Display of Image	20/10/2018
8.	Basics of Real Time Ultrasound, transducers and Artifacts Physics of Doppler Imaging	27/10/2018
9.	Digital Projection Radiography CR, DR, Digital fluoroscopy ,Digital Mammography	03/11/2018
10.	Demonstration cum lecture on Films, screens cassettes and grids.	10/11/2018

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UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL

LECTURE SHCHEDULE Year 2018--2019

Time: 12 to 1pm Venue: Conference Room Dept. Of Radiology

M.Sc. 2nd Semester

Paper 2: X-ray equipments (Conventional radiography)

TOPICS	TEACHER	DATE
1. Modular Generator, Automatic programmed generator.	DR.A.K.SRIVASTAVA	21/01/2019
2. CT tube & Angiographic tube.	DR.A.K.SRIVASTAVA	28/01/2019
3. Rapid serial radiography, rapid serial changer.	DR.A.K.SRIVASTAVA	04/02/2019
4. Multi- section radiography.	DR.A.K.SRIVASTAVA	11/02/2019
5. Cordless mobile equipment.	DR.A.K.SRIVASTAVA	18/02/2019
6. Equipments for radiation theatres.	DR.A.K.SRIVASTAVA	25/02/2019
7. Cassettes changer and film changer for abdominal peripheral angiography.	DR.A.K.SRIVASTAVA	04/03/2019
8. PUCK and AOT film changers, cranial dental radiography.	DR.A.K.SRIVASTAVA	11/03/2019
9. Skull table	DR.A.K.SRIVASTAVA	18/03/2019
10. Specialized dental x-ray equipments.	DR.A.K.SRIVASTAVA	25/03/2019
11. OPG	DR.A.K.SRIVASTAVA	01/04/2019
12. Equipment for trauma	DR.A.K.SRIVASTAVA	08/04/2019
13. Standard fluoroscopic table for Myelogram.	DR.A.K.SRIVASTAVA	15/04/2019

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UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL
LECTURE SHCEDULE M.D. Radiology 2018-2019

Subject: Radiation Physics and Medical Imaging Physics

Venue: Conference Room Dept. Of Radiology

Teacher: **Dr. Ajai Kumar Srivastava** Physicist (Dept of Radiology)

Time: 12 to 1 PM

Days

Saturday

S. NO.	TOPICS	DATE
1.	Basic of Magnetic Resonance Imaging; Concept about Magnetic moment & nuclear magnetism Precession and Tissue Magnetization excitation & resonance Relaxation T1 and T2 relaxation Times Spin echo Techniques T1 weighted and T2 weighted Image Contrast	08/09/2018
2.	Image Formation: Fast Fourier transformation Slice selection, phase encoding frequency encoding gradients Pulse sequences: Fast Spin Echo Techniques Pulse sequences: Inversion recovery (FLAIR, STIR)	15/09/2018
3.	Gradient Recalled Echo GRASS, EPI, FISP, FLASH etc. MRA: Phase Contrast and Time of Flight Techniques Diffusion and Perfusion MR Imaging	22/09/2018
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9.	Digital Projection Radiography CR, DR, Digital fluoroscopy ,Digital Mammography	03/11/2018
10.	Demonstration cum lecture on Films, screens cassettes and grids.	10/11/2018

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UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL

LECTURE SHCHEDULE Year 2018--2019

Time: 12 to 1pm Venue: Conference Room Dept. Of Radiology
M.Sc. 2nd Semester

Paper 3: Equipments for modern imaging modalities

TOPICS	TEACHER	DATE
#. Spiral CT & Multi slice CT,		
1. Creating a map of CT number	DR.A.K.SRIVASTAVA	25/01/2019
2. Hardware and Image quality.	DR.A.K.SRIVASTAVA	25/01/2019
3. Detail of image acquisition, reconstruction.	DR.A.K.SRIVASTAVA	25/01/2019
4. Digital image display	DR.A.K.SRIVASTAVA	01/02/2019
5. Radiation dose in CT	DR.A.K.SRIVASTAVA	01/02/2019
6. Image Quality & Artifact.	DR.A.K.SRIVASTAVA	01/02/2019
7. Multi-slice imaging in different body parts.	DR.A.K.SRIVASTAVA	01/02/2019
8. MPR and SSD.	DR.A.K.SRIVASTAVA	08/02/2019
9. CT angiography.	DR.A.K.SRIVASTAVA	08/02/2019
10. Automatic Pressure injection in CT.	DR.A.K.SRIVASTAVA	08/02/2019
11. Continuous intermittent data acquisition.	DR.A.K.SRIVASTAVA	08/02/2019
#. MRI,		
1. Magnetization property	DR.A.K.SRIVASTAVA	15/02/2019
2. Generation and detection of magnetic resonance signal.	DR.A.K.SRIVASTAVA	15/02/2019
3. Pulse sequences	DR.A.K.SRIVASTAVA	15/02/2019
4. Spin echo	DR.A.K.SRIVASTAVA	22/02/2019
5. Gradient echo	DR.A.K.SRIVASTAVA	22/02/2019
6. Signal from flow	DR.A.K.SRIVASTAVA	22/02/2019
7. Perfusion and Diffusion of contrast.	DR.A.K.SRIVASTAVA	22/02/2019
8. MTC	DR.A.K.SRIVASTAVA	01/03/2019
9. Localization of MR signal	DR.A.K.SRIVASTAVA	01/03/2019
10. K-Spaced data acquisition and image reconstruction	DR.A.K.SRIVASTAVA	01/03/2019
11. 3D- Fourier transformation, image acquisition.	DR.A.K.SRIVASTAVA	01/03/2019
12. Image characteristics.	DR.A.K.SRIVASTAVA	08/03/2019
13. Angiography and Magnetization transfer contrast	DR.A.K.SRIVASTAVA	08/03/2019
14. Artifacts & Instrumentation	DR.A.K.SRIVASTAVA	08/03/2019
15. Safety and Bio-effects	DR.A.K.SRIVASTAVA	15/03/2019
16. RF shielding in MR.	DR.A.K.SRIVASTAVA	15/03/2019
17. Shimming Bio-effects and site planning.	DR.A.K.SRIVASTAVA	15/03/2019
#. USG,		
1. 2D image display and storage.	DR.A.K.SRIVASTAVA	22/03/2019
2. Image quality and artifact.	DR.A.K.SRIVASTAVA	22/03/2019
3. Doppler USG	DR.A.K.SRIVASTAVA	22/03/2019
4. System performance and QA.	DR.A.K.SRIVASTAVA	22/03/2019
5. Acoustic power and Bio-effects.	DR.A.K.SRIVASTAVA	29/03/2019

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UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL -

LECTURE SHCHEDULE Year 2018--2019

Time: 12 to 1pm Venue: Conference Room Dept. Of Radiology

M.Sc. 2nd Year (4th semester)

Paper 1: Advance physics and instrumentation in modern imaging excluding radionuclide imaging.

TIME-10am to 11am

DAY- MONDAY

TOPICS	TEACHER	DATE
1. Ultrasound-wave characteristics, interaction of ultrasound with matter, US transducer ,piezoelectric effect ,types of transducer .	DR. A.K SHRIVASTAVA	26/01/2019
2. Ultrasound- presentation modes, instrumentation, artifact.	DR. A.K SHRIVASTAVA	02/02/2019
3. US quality control, safety and bioeffects.	DR. A.K SHRIVASTAVA	09/02/2019
4. Principle of Doppler and Doppler physics, instrumentation, artifacts, safety consideration.	DR. A.K SHRIVASTAVA	16/02/2019
5. CT-principle, geometry and physical development, Detectors and detector arrays.	DR. A.K SHRIVASTAVA	23/02/2019
6. CT- reconstruction method, radiation dose, image quality and artifacts.	DR. A.K SHRIVASTAVA	02/03/2019
7. MRI-Basic principle, 2D &3D fourier transform image acquisition .	DR. A.K SHRIVASTAVA	09/03/2019
8. MRI- Pulse sequences & K-space	DR. A.K SHRIVASTAVA	16/03/2019
9. MR instrumentation , MR Diffusion, MR Perfusion.	DR. A.K SHRIVASTAVA	23/03/2019
10. MR Angiography, BOLD.	DR. A.K SHRIVASTAVA	30/03/2019
11. Chemical shift imaging and spectroscopy.	DR. A.K SHRIVASTAVA	06/04/2019
12. MRI artifacts , bio-effects and site planning.	DR. A.K SHRIVASTAVA	13/04/2019

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UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL

LECTURE SHCHEDULE Year 2018--2019

Time: 12 to 1pm Venue: Conference Room Dept. Of Radiology

Paper 2: Advanced physics and instrumentation in digital image DSA (and PACS)

TIME-10am to 11am

DAY-TUESDAY

TOPICS	TEACHER	DATE
1. Digital imaging, digital representation of an image, digital verses analog processes ,patient dose consideration ,Hardcopy versus soft copy display, digital image processing.	DR.A.K.SRIVASTAVA	20/04/2019
2. Contrast vs spatial resolution in digital images, digital mammography, digital tomosynthesis.	DR.A.K.SRIVASTAVA	27/04/2019
3. Digital fluoroscopy.	DR.A.K.SRIVASTAVA	04/05/2019
4. Scanned projection radiography.	DR.A.K.SRIVASTAVA	11/05/2019
5. DSA, components of DSA chain.	DR.A.K.SRIVASTAVA	18/05/2019
6. PACS ,advantage& disadvantage of PACS ,planning for PACS, PACS network , data base and archive .	DR.A.K.SRIVASTAVA	25/05/2019
7. PACS workstation , web browser technology , graphic users interface. Compression , tele-radiology , data transmission, and quality assurance.	DR.A.K.SRIVASTAVA	01/06/2019
8. Computer system hardware and software.	DR.A.K.SRIVASTAVA	08/06/2019
9. DEXA and bone mineral densitometry.	DR.A.K.SRIVASTAVA	15/06/2019
10. Interventional and therapeutic radiology including ESWL.	DR.A.K.SRIVASTAVA	22/06/2019

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6. Signal processing	DR.A.K.SRIVASTAVA	29/03/2019
7. Dynamic range	DR.A.K.SRIVASTAVA	29/03/2019
8. USG artifacts and Quality control.	DR.A.K.SRIVASTAVA	29/03/2019

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LECTURE SHCHEDULE Year 2018--2019

Time: 12 to 1pm Venue: Conference Room Dept. Of Radiology

Paper 5: Recent Advances And Future Trends in Conventional Radiology, Ultrasound, CT & MR

TIME-10am to 11am

DAY- FRIDAY

TOPICS	TEACHER	DATE
1. 3D-USG, 4D-USG, Harmonic imaging , Elastography.	Dr.A,K Srivastava	25/01/2019
2. Multislice CT , dual source CT ,	DR.A.K.SRIVASTAVA	01/02/2019
3. Open MR ,Interventional MR ,Magnetic nanoparticle based MR scans , High field MR imaging .	DR.A.K.SRIVASTAVA	08/02/2019
4. Functional MRI.	DR.A.K.SRIVASTAVA	15/02/2019
5. Fusion technology , Ultrafast ceramic detectors, TIM- Total imaging matrix technology	DR.A.K.SRIVASTAVA	22/02/2019
6. CR & DR.	DR.A.K.SRIVASTAVA	01/03/2019
7. 3D & 4D CT, Respiratory & Cardiac gating in CT, Dose reduction techniques in CT.	DR.A.K.SRIVASTAVA	08/03/2019
8. Phototomography , Mammography , Tomosynthesis , CAD , Stereotactic systems .	DR.A.K.SRIVASTAVA	15/03/2019

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UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL

LECTURE SHCHEDULE Year 2018--2019

Time: 12 to 1pm Venue: Conference Room Dept. Of Radiology
M.Sc. 2nd Semester

Paper 4: Darkroom and processing technologies

TOPICS	TEACHER	DATE
1. Micro-processor controlled and modular type.	DR. ANUPAMA TANDON	23/01/2019
2. Choice of automated system.	DR. ANUPAMA TANDON	30/01/2019
3. Replenishment systems & auto-mixers, care and maintenance of auto processors.	DR. ANUPAMA TANDON	06/02/2019
4. Dark room design and construction.	DR. ANUPAMA TANDON	13/02/2019
5. Darkroom illumination (white light & safe light equipment).	DR. ANUPAMA TANDON	20/02/2019
6. Automatic film handling system.	DR. ANUPAMA TANDON	27/02/2019
7. Processing steps.	DR. ANUPAMA TANDON	06/03/2019
8. Storing & Handling of films.	DR. ANUPAMA TANDON	13/03/2019
9. Types of image qualities affected.	DR. ANUPAMA TANDON	20/03/2019
10. Automatic processing; transport system, circulation filtration section, replenishment system, dryer system, processor maintenance, automatic processor artifacts.	DR. ANUPAMA TANDON	27/03/2019
11. Sensitometry and darkroom quality control.	DR. ANUPAMA TANDON	03/04/2019
12. H & D curve, Photochemistry.	DR. ANUPAMA TANDON	10/04/2019
13. Tank type, arrangement & capacities.	DR. ANUPAMA TANDON	17/04/2019
14. Steps in tank processing.	DR. ANUPAMA TANDON	24/04/2019
15. Common Artifacts.	DR. ANUPAMA TANDON	01/05/2019
16. Health and safety regulation in darkroom facilities.	DR. ANUPAMA TANDON	08/05/2019

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UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL
LECTURE SHCHEDULE B. Sc (MT) (RADIOGRAPHY) Part II Paper I /I&II
M.Sc. (2nd semester) Paper III , IV & V)
Paper 2018-2019 Time: 2:30pm-3.30pm Venue: Dept. Of Radiology
Subject: Dark Room Procedure Monday

Topic	Teacher	Date
Structure of films	Dr Anupama	03/09/2018
Types of x-ray film used in Radiology	Dr Anupama	10/09/2018
X-ray developer constituents- in manual and automatic processor	Dr Anupama	17/09/2018
Fixer constituents in manual and automatic processor	Dr Anupama	24/09/2018
Steps in film processing	Dr Anupama	01/10/2018
Formation of latent image	Dr Anupama	08/10/2018
Screen -structure ,function ,types	Dr Anupama	15/10/2018
Cassettes types Cleaning ,maintenance of film ,cassettes and screen	Dr Anupama	22/10/2018
Ideal Dark room	Dr Anupama	29/11/2018
Sensitometric Characteristics of x-ray films	Dr Anupama	05/11/2018
Image Quality parameters in conventional radiography	Dr Anupama	12/11/2018
Factor affecting radiographic Quality	Dr Anupama	19/11/2018
Artifacts in conventional radiography	Dr Anupama	26/11/2018
Physics of Luminescence-,Florescence ,phosphorescence and Thermolumniscence	Dr Anupama	03/12/2018
IITV fluoroscopy Recording media -photo spot ,cine camera	Dr Anupama	10/12/2018
Devices used in conventional Angiography		
AOT and puck film changer ,Digital subtraction angiography	Dr Anupama	17/12/2018
MMR , Xero-radiography	Dr Anupama	24/12/2018
Artifacts	Dr Anupama	31/12/2018
Computed Radiography and digital Radiography	Dr Anupama	07/01/2019

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UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL
LECTURE SHCHEDULE

B. Sc (MT) (RADIOGRAPHY) Part III/ Paper I & II Year 2018-19

M.Sc. Part-2 (3rd Semester) Paper - III

Subject: Radiographic Anatomy & positioning consideration}

Time : 12am-1 pm Venue: Dept. Of Radiology

Day: Friday

S.No	TOPIC	TEACHER	DATE
1	Chest-Radiographic anatomy&position consideration	Dr.Anupama	07/09/2018
2	Abdomen-Radiographic anatomy&position consideration	Dr.Anupama	14/09/2018
3	Upper limb& Shoulder Gridle-Radiographic anatomy&position consideration	Dr.Anupama	21/09/2018
4	Lower limb & Pelvic gridle-Radiographic anatomy&position consideration	Dr.Anupama	28/09/2018
5	Spine-Radiographic anatomy&position consideration	Dr.Anupama	05/10/2018
6	Skull, Cranial bone&Facial bone-Radiographic anatomy&position consideration	Dr.Anupama	12/10/2018
7	Paranasal Sinuses,Mastoids& Temporal bones-Radiographic anatomy&position consideration	Dr.Anupama	26/10/2018
8	Dental Radiography & Orthopantomography	Dr.Anupama	02/11/2018
9	Soft tissue Radiography	Dr.Anupama	09/11/2018

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UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL
LECTURE SHCHEDULE Year 2018--2019

B. Sc (MIT) (RADIOGRAPHY) Part III Paper I/II & II/III & IV & M.Sc. Part II
Paper I, II, III

Time: 12 to 1pm Venue: Dept. Of Radiology

Subject: Positioning Special investigation
Wednesday

Topic	Teacher	Date
Upper GI contrast studies	Dr. Shuchi	22/08/2018
Lower GI contrast studies	Dr. Shuchi	29/08/2018
Contrast media -1	Dr. Shuchi	05/09/2018
Contrast media -2	Dr. Shuchi	12/09/2018
IVP with CT & MR urography	Dr. Shuchi	19/09/2018
Other urinary procedure like RGU,MCU	Dr. Shuchi	26/09/2018
HSG	Dr. Shuchi	03/10/2018
Special procedure -DCG, Sialography ,Biliary system ,sinogram,T Tube	Dr. Shuchi	10/10/2018
Mammography	Dr. Shuchi	17/10/2018
Angiography	Dr. Shuchi	24/10/2018
Radionuclide studies -1.Bone	Dr. Shuchi	31/10/2018
Radionuclide studies -2. Renal, thyroid	Dr. Shuchi	14/11/2018
Ultrasound -1	Dr. Shuchi	21/11/2018
Ultrasound -2	Dr. Shuchi	28/11/2018
Protocols- CT head & neck	Dr. Shuchi	05/12/2018
Protocols- CT chest CT abdomen and pelvis	Dr. Shuchi	12/12/2018
Protocols- CT extremities and spine	Dr. Shuchi	19/12/2018
Protocols- MR head & neck	Dr. Shuchi	26/12/2018
Protocols- MR chest CT abdomen	Dr. Shuchi	02/01/2019
Protocols- MR shoulder and knee	Dr. Shuchi	09/01/2019
Protocols- CT extremities and spine	Dr. Shuchi	16/01/2019
MRCP & ERCP	Dr. Shuchi	23/01/2019

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**UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL
LECTURE SHCHEDULE Year 2018--2019**

M.Sc. Part -1 Paper -3 (1ST Semester

M.Sc. Part -1 Paper 1 (2nd semester)

Time: 12 to 1pm

Venue: Dept. Of Radiology

Subject: Hospital Practice & Patient Care

Tuesday

Topic	Teacher	Date
Handling of injured Patients	Dr.Shuchi	04/09/2018
Special care while dealing with Pediatric patient	Dr.Shuchi	11/09/2018
Pregnant & females in reproductive age group	Dr.Shuchi	18/09/2018
Patients preparation for special procedure Special Inv. ,USG.	Dr.Shuchi	25/09/2018
CT ,MRI	Dr.Shuchi	02/10/2018
USG & ,MRI	Dr.Shuchi	09/10/2018
Vascular contrast agents -	Dr.Shuchi	16/10/2018
Vascular reaction & their management & emergency drugs	Dr.Shuchi	23/10/2018
Prenatal sex determination(PNDT)act and obligation under it	Dr.Shuchi	30/10/2018
Role and responsibility of radiographer towards Patient, legal ,ethical and clinical responsibility	Dr.Shuchi	06/11/2018
Non vascular contrast agents	Dr.Shuchi	13/11/2018
Radiography in ICU /OT /dental etc	Dr.Shuchi	20/11/2018
Patient Education Handling HIV Patients	Dr.Shuchi	27/11/2018
Care in Contrast Administration	Dr.Shuchi	04//12/2018
Non vascular and Non iodinated Contrast media	Dr.Shuchi	11/12/2018
Intravascular Contrast media ionic monomers ionic dimmers	Dr.Shuchi	18/12/2018
Adverse reaction and compatibility	Dr.Shuchi	25/12/2018

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UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL

LECTURE SHCHEDULE Year 2018--2019

Time: 12 to 1pm Venue: Conference Room Dept. Of Radiology

Paper 4: Measurement of radiation: monitoring devices and quality assurance testing of equipment

TIME-10am to 11am

DAY- WEDNESDAY

TOPICS	TEACHER	DATE
1. Sources of exposure to ionizing radiation.	MR. MOHIT	23/01/2019
2. Personnel dosimetry.	MR. MOHIT	30/01/2019
3. Radiation detection equipment in radiation safety.	MR. MOHIT	06/02/2019
4. Radiation protection and exposure control.	MR. MOHIT	13/02/2019
5. Radiation dosimetry of the patient : x-ray dosimetry of the patient, Radiopharmaceutical dosimetry.	MR. MOHIT	20/02/2019
6. Image quality , contrast detail curves , receiver operating characteristics curve , sampling and aliasing in digital image.	MR. MOHIT	27/02/2019
7. Radiation quality and quantity.	MR. MOHIT	6/03/2019
8. Radiation detectors.	MR. MOHIT	13/03/2019
9. Analysis of nuclear data and counting system.	MR. MOHIT	20/03/2019
10. Determinate errors in radioactivity measurements, gamma ray spectrometry , photopeak counting , radioactive agents for clinical studies.	MR. MOHIT	27/03/2019
11. X-ray equipment maintenance.	MR. MOHIT	03/04/2019
12. H & D curve, processing control charts diagnosing deviations.	MR. MOHIT	10/04/2019
13. QA guidelines, QA and quality control in Radiography	MR. MOHIT	17/04/2019
14. QA and quality control in CT, MRI,	MR. MOHIT	24/04/2019
15. QA and quality control in USG , Mammography .	MR. MOHIT	01/05/2019
16. QA and quality control in nuclear medicine.	MR. MOHIT	08/05/2019

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UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL

LECTURE SHCHEDULE Year 2018--2019

Time: 12 to 1pm Venue: Conference Room Dept. Of Radiology
M.Sc. 2nd Semester

Paper 5: Image receptor, Recording system, Acquisition, Display & storage of image

TOPICS	TEACHER	DATE
1. Presentation and viewing of radiographs.	DR. MOHIT	22/01/2019
2. Method of recording data, actinic markers, identification of dental films, final presentation of radiographs, viewing equipments, color temperatures, specialized illuminators.	DR. MOHIT	29/01/2019
3. Photofluorography of the intensified image, cine camera, cine fluorographs, cine film, serial camera, processing cine fluorographs, cine film, serial camera, processing fluoroscopic film, serial camera presentation of fluoroscopic camera.	DR. MOHIT	05/02/2019
4. TV and digital images, principle of TV, pick up tube, video link, monitor, TV fluoroscopy, optical coupling, TV image quality, digital TV imaging, ADC signal, Image processing, display of digital images bi-stable, color images.	DR. MOHIT	12/02/2019
5. Recording the television image, video tape, recording advantages over cine radiography, laser imager, CRT cameras, Video imager setting up to CRT Imagers, Video signal interface, Dry silver imaging.	DR. MOHIT	19/02/2019
6. Photographic subtraction, Subtraction film characteristics, subtraction procedures in practice, second order subtraction.	DR. MOHIT	26/02/2019
7. Digital subtraction, parallax bio-ocular vision.	DR. MOHIT	05/03/2019
8. Principle of stereoradiography, viewing and working of radiographs, 3D reconstruction and future development, formation and quality of retinal image, response of retina.	DR. MOHIT	12/03/2019

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UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL
LECTURE SHCHEDULE : B.Sc. (MT) Radio Part III Paper VII /VII
M.Sc.(MIT) Part- 1(1st Semester) Paper – III & Paper IV
M.Sc,(MIT) Part II Paper V

Subject: Radiation Protection

Time: 2pm -3.30 pm Venue: Dept. Of Radiology

(Wednesday)

S. No	TOPIC	TEACHER	DATE
1	Principles of Radiation Protection	Mr Mohit	04/09/2018
2	Parameters affecting doses in Conventional radiography and dose descriptors	Mr Mohit	11/09/2018
3	Parameters affecting Doses in Mammography,CT,Fluoro,CR.DR	Mr Mohit	18/09/2018
4	TLD Badge Film badge	Mr Mohit	25/09/2018
5	Pocket dosimeter, Survey meter	Mr Mohit	09/10/2018
6	ALARA Principle	Mr Mohit	16/10/2018
7	Evaluation of image Quality	Mr Mohit	23/10/2018
8	QA procedure in Radiography	Mr Mohit	30/10/2018
9	AERB guide lines	Mr Mohit	06/11/2018
10	Estimation of doses in Radiography ,CT ,Fluoroscopy, mammography	Mr Mohit	13/11/2018
11	Protection of patients in radionuclide Imaging	Mr Mohit	20/11/2018
12	QA In Gamma camera PET .SPECT	Mr Mohit	27/11/2018
13	QA in MR	Mr Mohit	04/12/2018
14	QA in CT	Mr Mohit	11/12/2018
15	QA in Ultrasound	Mr Mohit	18/12/2018
16	QA in Mammography	Mr Mohit	25/12/2018
18	Image quality, Contrast detail curves	Mr Mohit	01/01/2019
18	Pulse height spectroscopy ,SCA & MCA ,Dose calibration & Counting statistic	Mr Mohit	08/01/2019
19	Radiopharmaceutical Dosimetry	Mr Mohit	15/01/2019

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Department of Radiology

UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL

LECTURE SHCHEDULE : B.Sc. (MIT) Radiography Part III Paper VII & VIII
& M.Sc. (MIT) Part I Paper V

Subject: Radiation Biology Time: 12 pm -1.00pm Venue: Dept. Of Radiology
(Monday)

S. No	TOPIC	TEACHER	DATE
1	Cell structure	Mr.Mohit	03/09/2018
2	Biological effect of radiation Cellular level-	Mr.Mohit	10/09/2018
3	Biological effect of radiation cellular level	Mr.Mohit	17/09/2018
4	Biological effect .Deterministic effect organ System	Mr.Mohit	24/09/2018
5	Biological effect -... Acute radiation Syndrome	Mr.Mohit	01/10/2018
6	Stochastic effect .. Radiation induced Cancer	Mr.Mohit	08/10/2018
7	Basic nuclear Physics	Mr.Mohit	15/10/2018
8	Production of Radio-nuclides	Mr.Mohit	22/10/2018
9	Tecnititium Generator	Mr.Mohit	29/11/2018
10	Gamma camera SPECT,PET	Mr.Mohit	05/11/2018
11	Bio-effects in Ultrasound	Mr.Mohit	12/11/2018
12.	MR Bio effect and safety issues	Mr.Mohit	19/11/2018

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UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL
LECTURE SHCHEDULE Year 2018--2019
 B. Sc (MIT) (RADIOGRAPHY) Part II

Time: 12 to 1pm

Venue: Dept. Of Radiology

Subject: Hospital Practice & Patient Care

Tuesday

Topic	Teacher	Date
Handling of injured Patients	Dr. Natasha	05/09/2018
Special care while dealing with Pediatric patient	Dr. Natasha	12/09/2018
Pregnant & females in reproductive age group	Dr. Natasha	19/09/2018
Patients preparation for special procedure Special Inv. ,USG.	Dr. Natasha	26/09/2018
CT ,MRI	Dr. Natasha	03/10/2018
USG & ,MRI	Dr. Natasha	10/10/2018
Vascular contrast agents -	Dr. Natasha	17/10/2018
Vascular contrast agents -	Dr. Natasha	24/10/2018
Vascular reaction & their management & emergency drugs	Dr. Natasha	31/10/2018
Role and responsibility of radiographer towards Patient, legal ,ethical and clinical responsibility	Dr. Natasha	14/11/2018
Non vascular contrast agents	Dr. Natasha	21/11/2018
Radiography in ICU /OT /dental etc	Dr. Natasha	28/11/2018
Patient Education Handling HIV Patients	Dr. Natasha	05/12/2018
Care in Contrast Administration	Dr. Natasha	12//12/2018
Non vascular and Non iodinated Contrast media	Dr. Natasha	19/12/2018
Intravascular Contrast media ionic monomers ionic dimmers	Dr. Natasha	26/12/2018
Adverse reaction and compatibility	Dr. Natasha	02/01/2018

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M.Sc. 2nd Semester

Paper 1: Care and preparation of patient in radiology department.

TOPICS	TEACHER	DATE
1. Infection control and institutional safety.	DR. NATASHA	22/01/2019
2. Safe practice regarding waste disposal in hospital and clinics.	DR. NATASHA	29/01/2019
3. Body defense mechanism against disease.	DR. NATASHA	05/02/2019
4. Factors that effects transmission of infection, Infection process & immunodeficiency, Institutional states rules and policy.	DR. NATASHA	12/02/2019
5. HIV infection → Phases of infection, diagnosis, precaution and isolation practice, techniques to control infection.	DR. NATASHA	26/02/2019
6. Safety of patient in assisting, moving & transferring for imaging in radiography and trauma/emergency.	DR. NATASHA	05/03/2019
7. Surgical Asepsis, disinfection, sterilization, surgical team , mode of sterilization (Autoclaving- pressurized steam).	DR. NATASHA	12/04/2019
8. Sterilization by gas, chemical, dry heat or ionizing & non-ionizing radiation.	DR. NATASHA	19/04/2019
9. Principle of surgical asepsis- proper method of opening sterile packs & drapes, surgical scrubs, gloves & gown, operating theatre radiography, preparation of skin before undertaking procedures, preparing skin and draping, method to change draping.	DR. NATASHA	02/04/2019
10. Monitoring vital signs- Body temperature, respiration, B.P monitors and administering oxygen theory- Pulse oximetry, side effects of O ₂ , delivery of O ₂ .	DR. NATASHA	09/04/2019
11. Assessing neurological and cognitive functional in critical patients; clinical assessments and assisting in management of shock, pulmonary embolism, diabetic emergencies, respiratory and cardiac failure, airway obstruction and establishing airways, identifying response to respiratory and cardiac arrest, assisting in management of stroke, syncope, seizures and anaphylaxis.	DR. NATASHA	16/04/2019
12. Care of patient in special situation- Pediatric , newborn (including high risk), adolescent and agitated or an anxious child.	DR. NATASHA	23/04/2019
13. Care during GI examination. <ul style="list-style-type: none">• Care during barium enema for lower GI tract, Post procedure instructions.• Care during and after GI and small bowel barium studies• Patients with-<ul style="list-style-type: none">➤ Gastrostomy tubes➤ Tracheostomy➤ Central venous catheter➤ Emergency suction➤ Mechanical ventilator➤ Care of chest-tube and intercostals water seal drainage, Tissue drains.	DR. NATASHA	04/05/2019
14. Drugs relevant to radiographer, their pharmacokinetics, adverse reaction, their routes of administration. Different classes of drugs used- hematenics, I.V fluids, vitamins, minerals, calcium supplement.	DR. NATASHA	23/04/2019

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Final
2018

UNIVERSITY COLLEGE OF MEDICAL SCIENCES & GTB HOSPITAL

LECTURE SHCHEDULE Year 2018--2019

Time: 12 to 1pm Venue: Conference Room Dept. Of Radiology
Paper-6 Recent Advances and Future Trends in Cardiac and Vascular Imaging Techniques,
Vascular And Nonvascular Intervention

TOPICS	TEACHER	DATE
1. Multiaxial Angiography system.	DR.GOPESH	
2. Floor mounted angiography system.	DR.GOPESH	
3. Magnetic navigation systems for vascular intervention.	DR.GOPESH	
4. Devices used in vascular intervention & angiography.	DR.GOPESH	
5. MR based vascular intervention.	DR.GOPESH	
6. Intravascular CO ₂ delivery.	DR.GOPESH	

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2018

15. Cardiac care & monitoring , ECG rhythm, care during cardiac catheterization angiography and intervention.	DR. NATASHA	30/04/2019
16. Intrathecal drugs and contrast administration	DR. NATASHA	07/05/2019
17. Care of patient: <ul style="list-style-type: none"> • During Lumbar puncture myelography, CT myelography, pre-procedure instructions, post- myelography instructions and precautions. • Lymphangiography, Mammography, Galactography, Lithotripsy. • Ultrasound, MRI, PET, Nuclide Imaging. 	DR. NATASHA	14/05/2019
18. Male and female catheterization, removing indwelling catheters, care of indwelling catheters before and during cystography. RGP and other drainage procedures.	DR. NATASHA	21/05/2019
19. Claustrophobia during MR examination and its management.	DR. NATASHA	28/05/2019

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