

Week	Date	Topic	RSNA/AAPM Module	Faculty	
FUNDAMENTALS					
1	5-Jan-23	Intro to Radiography (Interactions/X-ray tubes)	Atoms, Radiation and Radioactivity X-Ray Tubes and Spectra	MA	
2	12-Jan-23	Intro to Radiography (Interactions/Terminology)	Interactions of Radiation with Tissue Radiation Measurements and Units	MA	
3	19-Jan-23	Intro to Radiography (Geometry/Contrast/Technique)	Interactions of Radiation with Tissue Radiation Measurements and Units	MA	
4	26-Jan-23	Digital X-Ray Imaging	Radiographic Systems, Digital X-Ray Imaging, Radiographic Image Receptors	MA	
INTRODUCTION TO MODALITIES					
5	2-Feb-23	Intro to CT	CT Systems, Rad Dose in CT	DZ	
6	9-Feb-23	NO CLASS	Ski Day!		
7	16-Feb-23	Intro to Mammography	Mammographic Systems	KK	
8	23-Feb-23	Intro to Fluoroscopy	Fluoroscopy Systems	JM	
IMAGE PERCEPTION, DISPLAY AND PROCESSING					
9	2-Mar-23	Image Perception & Display	Image Perception and Display	JM	
10	9-Mar-23	PACS Image Processing and Reconstruction	Image Processing, Reconstruction & PACS	DZ	
11	16-Mar-23	Review Session - Q&A (Assign Take Home Quiz 1)			JM
RADIATION BIOLOGY AND RADIATION RISK					
12	23-Mar-23	Basic Radiation Biology I	Basic Radiation Biology	KK	
13	30-Mar-23	Basic Radiation Biology II & Rad Protection	Basic Rad Bio & Fundamentals of Radiation Protection	KK	
14	6-Apr-23	Radiation Effects	Radiation Effects	KK	
15	13-Apr-23	Radiation Risks and Estimating Cancer Risk	Radiation Dose and Risk, Estimating Cancer Risk from Imaging Procedures	KK	
IMAGING MODALITIES					
16	20-Apr-23	CT Systems	CT Systems	DZ	
17	27-Apr-23	CT Image Quality, Dose and Protocols	CT Image Quality and Protocols Radiation Dose in CT	DZ	
18	4-May-23	CT Imaging and Rad Prot of Ped Patient	Image Gently: CT Imaging and Radiation Protection of Pediatric Patient	DZ	
19	11-May-23	NO CLASS	Beach Day!		
20	18-May-23	Basic Ultrasound Imaging and Display	Basic Ultrasound Imaging and Display	JM	
21	25-May-23	Interaction of US Tissue and Doppler	Interaction of US Tissue and Doppler	JM	
22	1-Jun-23	US Artifacts		Dighe	
23	8-Jun-23	Image Quality & Dose in Rad and Mammo	Image Quality and Dose in Radiography Mammography Image Quality and Dose	DZ	
24	15-Jun-23	Mammo Clinical Lecture		Liao	
25	22-Jun-23	Fluoroscopy Lab	Radiation Dose and Safety in Interventional Radiology	JM+AW	
26	29-Jun-23	Review Session - Q&A (Assign Take Home Quiz 2)			DZ

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MAGNETIC RESONANCE IMAGING					
27	6-Jul-23	MRI: Basic Physics I	Basic Principles of Nuclear Magnetic Resonance	CB	
28	13-Jul-23	MRI: Basic Physics 2 and Hardware	Instrumentation	CB	
29	20-Jul-23	MRI: Image Formation	Image Formation	CB	
30	27-Jul-23	MRI: Basic Imaging Sequences	Pulse Sequences	CB	
31	3-Aug-23	MRI: Advanced Sequences	Special Acquisition Methods/Gadolinium-based Contrast Agents	CB	
32	10-Aug-23	MRI: Imaging Features and Characteristics	Image Characteristics	CB	
33	17-Aug-23	MRI: Artifacts	Artifacts	CB	
34	24-Aug-23	MRI: Quality/Bioeffects/Safety MRI: Siting and Environmental Protection (self-study)	Quality/Bioeffects/Safety Siting and Environmental Protection (self-study)	CB	
35	31-Aug-23	Review Session - Q&A (Assign Take Home quiz 3)			CB
NUCLEAR MEDICINE PHYSICS					
36	7-Sep-23	Basic Nuclear Physics: Decay and Interactions with Matter	Atoms, Radiation, and Radioactivity Interactions of Radiation and Tissue	JM	
37	14-Sep-23	Radiation Detection Instrumentation and Radiation Safety in NM Practice	Radiation Detection Instrumentation in NM Practice	RM	
38	21-Sep-23	SPECT and SPECT/CT	SPECT / SPECT-CT / Image Quality	DM	
39	28-Sep-23	Radioisotopes, Radiopharmaceutical, and Dosimetry	Radioisotopes and Radiopharmaceuticals Radionuclide Dosimetry and Nuclear Regulations	CB	
40	5-Oct-23	PET and PET/CT	PET/PET-CT/Image Quality	DM	
41	12-Oct-23	Clinical NM Artifacts		LT	
42	19-Oct-23	Nuclear Regulations	Radionuclide Dosimetry and Nuclear Regulations	JJ	
43	26-Oct-23	Radioisotope Safety (RISE Concepts)	Radioisotopes and Radiopharmaceuticals	JJ	
44	2-Nov-23	Review Session - Q&A (Assign Take Home quiz 4)			MA