

Diagnostic Radiology Imaging Physics Course

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*Suggested Reading: * The Essential Physics of Medical Imaging, 2nd edition*
Bushberg, Seibert, Leidholdt and Boone. Lippincott Williams & Wilkins, 2002.

Review of Radiologic Physics, 2nd edition
Huda and Stone. Lippincott Williams & Wilkins, 2003

Format of Lecture: 10 min - Quiz on previous class lecture, 90 min - Lecture, 20 min - Raphex Exam Questions

2004 Syllabus	3:30-5:30 pm		Suggested Reading*
6-May (D209)	Thurs	Introduction to Medical Imaging Radiation and the Atom Interaction of Radiation with Matter	Chapter 1 & 2 Chapter 3
11-May	Tues	Interaction of Radiation with Matter (Contd) Computers in Medical Imaging, Networks, PACS, Teleradiology	Chapter 3 Chapter 4 & 17
13-May	Thurs	Computers in Medical Imaging, Networks, PACS, Teleradiology (Contd) X-Ray Production, Tubes and Generators	Chapter 4 & 17 Chapter 5
18-May	Tues	Screen-Film Radiography	Chapter 6
20-May	Thurs	Image Quality	Chapter 10
25-May	Tues	<i>Board Exam Questions Review</i> Digital Radiography	Huda, Raphex Chapter 11
27-May (D209)	Thurs	Digital Radiography (contd) DSA & Dual-Energy Subtraction	Chapter 11 Chapter 12
1-Jun	Tues	Film Processing Mammography	Chapter 7 Chapter 8
3-Jun	Thurs	Mammography (Contd)	Chapter 8
8-Jun	Tues	Fluoroscopy	Chapter 9
10-Jun	Thurs	Rad. Safety in Fluoroscopy <i>Board Exam Questions Review</i>	Handout Huda, Raphex
15-Jun	Tues	Radiation Protection Radiation Dosimetry	Chapter 23 Chapter 24
17-Jun	Thurs	Radiation Biology	Chapter 25
22-Jun	Tues	Computed Tomography	Chapter 13
24-Jun	Thurs	Computed Tomography (contd)	Chapter 13
29-Jun	Tues	Computed Tomography - Clinical Lecture	Radiologist
1-Jul	Thurs	Ultrasound	Chapter 16
6-Jul	Tues	Ultrasound (contd) Ultrasound - Clinical Lecture	Chapter 16 Radiologist
8-Jul	Thurs	<i>Board Exam Questions Review</i>	Huda, Raphex
13-Jul	Tues	MRI	Chapter 15
15-Jul	Thurs	MRI (contd)	Chapter 15
20-Jul	Tues	MRI (contd)	Chapter 15
22-Jul	Thurs	MRI - Clinical Lecture	Radiologist
27-Jul	Tues	<i>Board Exam Questions Review</i>	Huda, Raphex