

Schedule v 1.3 19/11-23

Physics of Diagnostic Radiology

Day	Date	Time	Lectures	Lecturer
Mon	18-dec	9.30-11.00	General Introduction	Various
		12.00-15.00	Practical info on X-ray course	
Tue	19-dec	09.45-11.00	Radiation Physics of Diagnostic Radiology	GP
		12.30-13.30	X-ray technology. X-ray beam quality, scatter, AEC, Dose parameters used in diagnosis	GP
		13.30-14.30	Image formation in conventional radiography	GP
		14.30-15.30	X-ray dosimetric quantities	GP
		15.30-16.30	Exercise: x-ray calculations with SpekPy Web	GP
Wed	20-dec	10.00-10.40	Image Quality (IQ) I	AO
		10.50-12.00	Image Quality (IQ) II	AO
		13.00-14.30	Image Quality (IQ) III	AO
		15.00-16.00	Demo DQE	SM
		16.10-17.10	Demo DQE	SM
Thu	21-dec	09.00-11.00	Projection radiography	SR
		11.15-14.00	Paediatric X-ray procedures (incl. Lunch break)	SM
		14.15-15.15	Radiologist's view on IQ – projection radiography	EN
Mon	08-jan	09.00-11.00	Instrumentation in X-ray Physics. The non-invasive X-ray Multimeter	JL
		12.00-14.00	Laboratory exercise, the X-ray Multimeter GR A	JL
		14.15-16.15	Laboratory exercise, the X-ray Multimeter GR B	JL
Tue	09-jan	09.00-	Conventional: Laboratory and calculation exercise GR1	RV, SM
			Conventional: Laboratory and calculation exercise GR2	RV, SM
			Conventional: Laboratory and calculation exercise GR3	RV, SM
Wed	10-jan		back-up time	
Thu	11-jan		back-up time	
Fri	12-jan	09.00-10.30	Mammography	JL
		11.00-12.00	Radiologist's view on IQ-mammo	AZ
		13.00-16.00	Laboratory and calculation exercise GR 1	JL
Mon	15-jan	09.00-12.00	Laboratory and calculation exercise. Mammography GR 3	JL
		13.00-16.00	Laboratory and calculation exercise. Mammography GR 2	JL
Tue	16-jan	09.00-10.30	Computed Tomography I	
		09.00-10.30	The Medical Physicist in practice	AS
		11.00-12.30	Radiologist's view on IQ – CT	
Wed	17-jan	13.30-15.00	Computed Tomography II	
Thu	18-jan	09.00-11.00	CT computational exercises	
		12.30-14.00	Auscultation CT GR2	
		14.00-18.00	Laboratory exercise CT GR1	
		14.00-18.00	Laboratory exercise CT GR2	
Fri	19-jan	09.00-09.45	Half-time review	JL
		10.00-11.30	Auscultation CT GR1	
		10.00-11.30	Auscultation CT GR3	
Mon	22-jan	09.00-11.00	Angiography and intervention	
		13.00-16.00	Laboratory exercise. Angiography GR3	
Tue	23-jan	14.30-17.30	Laboratory exercise. Angiography GR2	
Wed	24-jan	13.00-16.00	Laboratory exercise. Angiography GR1	
Thu	25-jan	09.00-16.00	PCXMC. Software tool / Laboratory exercise. Common x-ray physicist duties	AC
Fri	26-jan	09.00-10.30	Dental Radiology	
		10.45-11.45	DICOM	
		12.45-13.45	Ultrasound	
Mon	29-jan	09.00-11.00	The Medical Physicist in practice	
		11.15-12.15	Radiation Protection	
		13.00-14.00	Quality Management System and deviation reporting	
		14.30-15.40	New X-ray technologies	
Tue	30-jan	09.30-10.30	Seminars Introduction and group work	
Wed	31-jan	10.30-16.30	Seminars: group work	
Thu	01-feb	09.00-11.00	Seminars: group work and support hour	
		12.00-16.30	seminars: group work	
Fri	02-feb	08.30-11.30	Seminars presentations	
Mo	05-feb	10.00-12.00	Review questions	JL
Tue	06-feb		back-up time	
Wed	07-feb		back-up time	
Thu	08-feb		back-up time	
Fri	09-feb		Exam	

Exam date. prel. 09 FEB

*

Note, deadline for Laboratory exercise reports. 2 weeks after Laboratory exercise date and/or received data

General Questions session

Teachers

AA	Ali Al-Jandeeel
AC	Axel Carlbring
AK	Angela Karambatsakidou
AMK	Amar Karalli
AO	Artur Omar
AS	Albert Sundvall
ASE	Andreas Selin
AZ	Athanasios Zouzos
EW	Erik Wåhlin
EM	Evelin Mattsson
EN	Eva Nordenskjöld-Kvanta
GP	Gavin Poludnowski
HåA	Håkan Almqvist
HT	Heikki Teriö
JE	Jan Engström
JL	Jan Lindström
JH	Johan Helmenkamp
JSN	Jörgen Scherp Nilsson
LB	Louise Blomkvist
MH	Markus Hulthén
NK	Nils Kadesjö
PH	Pierre Hillergren
RV	Robert Vorbau
RE	Rebecca Elovsson
RT	Rebecca Titternes
SW	Stig Wallgren
SM	Shahla Mobini
YW	Yanlu Wang

SU= Stockholm University

Primary contact persons.

JL	Jan Lindström
AK	Angeliki Karambatsakidou
MT	Maj Tapper
SM	Sofia Magrioteli