

PHYSICS OF DIAGNOSTIC RADIOLOGY (10.5 p) - FK8031

Schedule – Autumn 2026

Text in red indicates mandatory tasks.

Day	Date	Time	Activity	Lecturer	Location
Mon	09-nov	9.30-10.30	General Introduction	Various	GKS D1/D2 - TC or Library
		10.30-11.00	Pick up hospital clothing	AK/SMK	GKS D1/D2 - TC or Library
		12.00-14.00	Practical info & short hospital tour	AK/SMK/SM	GKS D1/D2 - TC or Library
Tue	10-nov	09.45-11.00	X-ray fundamentals - Radiation Physics of Diagnostic Radiology	GP	GKS D1/D2 - TC or Library
		11.00-12.00	X-ray fundamentals - X-ray technology: x-ray tubes and generators	GP	GKS D1/D2 - TC or Library
		13.00-15.00	The Medical Physicist in practice	AS	GKS D1/D2 - TC or Library
Wed	11-nov	13.30-14.30	X-ray fundamentals - Image formation in conventional radiography	GP	GKS D1/D2 - TC or Library
		14.30-15.30	X-ray fundamentals - X-ray dosimetric parameters	GP	GKS D1/D2 - TC or Library
		15.30-16.30	X-ray fundamentals - Exercise: x-ray beam calculations with SpekPy	GP	GKS D1/D2 - TC or Library
Thu	12-nov	10.00-15.00	The Essentials of Image Quality (incl. Lunch)	AO	GKS D1/D2 - TC or Library
		15.15-16.15	Radiation Protection	AA	GKS D1/D2 - TC or Library
Fri	13-nov	10.00-13.00	Computed Tomography (Image Quality)	AO	GKS D1/D2 - TC or Library
		15.00-16.00	Demo DQE GR A (Ge-labbet;B5:11)	AO, SMK	GKS D1/D2 - TC or Library
		16.15-17.15	Demo DQE GR B (Ge-labbet;B5:11)	AO, SMK	GKS D1/D2 - TC or Library
Mon	16-nov	09.00-11.00	Projection radiography	SMK	GKS D1/D2 - TC or Library
		11.15-14.00	Paediatric X-ray procedures (incl. Lunch break)	SMK	GKS D1/D2 - TC or Library
Tue	17-nov	09.00-11.00	Instrumentation in X-ray Physics with guided laboratory exercise	EW	Huddinge
		12.00-14.00	Laboratory exercise. The X-ray Multimeter GR B	EW	Huddinge
		14.15-16.15	Laboratory exercise. The X-ray Multimeter GR A	EW	Huddinge
Wed	18-nov	09.00-16.00	Auscultation Conventional (adult) GR1, GR2, GR3	ASE	Huddinge
Thu	19-nov	09.00-12.00	Conventional: Laboratory work GR3 (RAX; lab 5 eller 6; F5:75)	SMK, AAZ	GKS D1/D2 - TC or Library

		08.30-10.30	Auscultation Conventional (paediatric) GR1	SMK, AAZ	GKS D1/D2 - TC or Library
		13.00-16.00	Conventional: Laboratory work GR1 (RAX; lab 5 eller 6; F5:75)	SMK, AAZ	GKS D1/D2 - TC or Library
		13.00-15.00	Auscultation Conventional (paediatric) GR3	SMK, AAZ	GKS D1/D2 - TC or Library
Fri	20-nov	09.00-11.00	Auscultation Conventional (paediatric) GR2	SMK, AAZ	GKS D1/D2 - TC or Library
		13.00-16.00	Conventional: Laboratory work GR2 (RAX; lab 5 eller 6; F5:75)	SMK, AAZ	GKS D1/D2 - TC or Library
Mon	23-nov	10.00-11.00	Radiologist's view on IQ – projection radiography	EN	GKS D1/D2 - TC or Library
		12.00-13.30	Mammography	MH	GKS D1/D2 - TC or Library
		14.00-16.00	Auscultation Mammography GR1	JSN	GKS D1/D2 - TC or Library
Tue	24-nov	09.00-11.00	Auscultation Mammography GR2	JSN	GKS D1/D2 - TC or Library
		12.30-13.30	Radiologist's view on IQ-mammo	EA	GKS D1/D2 - TC or Library
		14.00-16.00	Auscultation Mammography GR3	JSN	GKS D1/D2 - TC or Library
		14.00-17.00	Laboratory and calculation exercise. Mammography GR1	MH, JSN	GKS D1/D2 - TC or Library
Wed	25-nov	09.00-12.00	Laboratory and calculation exercise. Mammography GR3	MH, JSN	GKS D1/D2 - TC or Library
		13.00-16.00	Laboratory and calculation exercise. Mammography GR2	MH, JSN	GKS D1/D2 - TC or Library
Thu	26-nov	09.00-11.30	Computed Tomography I	DT	GKS D1/D2 - TC or Library
		12.30-13.30	Radiologist's view on IQ-CT	PCJ	GKS D1/D2 - TC or Library
Fri	27-nov	12.30-15.00	Computed Tomography II	DT	GKS D1/D2 - TC or Library
Mon	30-nov	10.30-12.30	CT computational exercises	LB/AC	GKS D1/D2 - TC or Library
		15.30-19.30	Laboratory exercise CT GR1	PH	GKS D1/D2 - TC or Library
Tue	01-dec	09.00-11.00	Auscultation CT GR3	CW /LB/AC	Huddinge
		15.30-19.30	Laboratory exercise CT GR2	PH	GKS D1/D2 - TC or Library
Wen	02-dec	09.00-11.00	Auscultation CT GR1	CW /LB/AC	Huddinge
		13.00-15.00	Auscultation CT GR2	CW /LB/AC	Huddinge
		15.30-19.30	Laboratory exercise CT GR3	PH	GKS D1/D2 - TC or Library
Thu	03-dec	08.00-10.00	CT Computational exercises presentation GR1	LB/AC	Huddinge, C2:76 Alfa

		10.00-12.00	CT Computational exercises presentation GR2	LB/AC	Huddinge, C2:76 Alfa
		13.00-15.00	CT Computational exercises presentation GR3	LB/AC	Huddinge, C2:76 Alfa
Fri	04-dec	08.30-11.30	Angiography and interventional techniques	AK	GKS D1/D2 - TC or Library
		12.30-13.30	Radiologist's view on IQ –angiography and interventional radiology	FSM	GKS D1/D2 - TC or Library
		13.45-16.45	Laboratory exercise. Angiography GR 1 (KERIC)	MH, AO	GKS D1/D2 - TC or Library
Mon	07-dec	08.00-11.00	Auscultation - Angiography and intervention GR A (coronary-/peripheral angiography)	MH, AK	GKS D1/D2 - TC or Library
		11.30-12.00	Half-time review		GKS D1/D2 - TC or Library
		13.00-16.00	Laboratory exercise. Angiography GR 2 (KERIC)	MH, AO	GKS D1/D2 - TC or Library
Tue	08-dec	08.00-12.00	Auscultation - Angiography and intervention GR B (coronary-/peripheral angiography)	MH, AK	GKS D1/D2 - TC or Library
		13.00-16.00	Laboratory exercise. Angiography GR 3 (KERIC)	MH, AO	GKS D1/D2 - TC or Library
Wen	09-dec	09.00-16.00	PCXMC. Software tool / Laboratory exercise. Common x-ray physicist duties; GR A and GR B	AC, AA	Bearbeticum, C2:76 Huddinge
Thu	10-dec	10.30-11.30	Dental Radiology	NK	Huddinge
		13.00-15.00	Ultrasound – Physics	ASe	Huddinge
		15.00-16.00	Ultrasound – Clinical Sonography (with live demo)	JB	Huddinge
Fri	11-dec	9.00-12.00	DICOM I and II	GP, JHF	GKS D1/D2 - TC or Library
		13.00-14.15	New X-ray technologies	GP	GKS D1/D2 - TC or Library
		14.30-15.45	Quality Management System and deviation reporting	SMK	GKS D1/D2 - TC or Library
Mon	14-dec	09.30-10.30	Seminars Introduction and group work	AK, SMK	GKS D1/D2 - TC or Library
Tue	15-dec	10.30-16.30	Seminars: group work	AK, SMK	GKS D1/D2 - TC or Library
Wen	16-dec	09.00-11.00	Seminars: group work and support hour	AK, SMK	GKS D1/D2 - TC or Library
		12.00-16.30	Seminars: group work and support hour	AK, SMK	GKS D1/D2 - TC or Library
Thu	17-dec	08.30-11.30	Seminars presentations	AK, SMK	GKS D1/D2 - TC or Library
Fri	18-dec	10.00-12.00	Review questions	All	GKS D1/D2 - TC or Library

Mon	21-dec	Back-up time		
Tue	22-dec	Back-up time		
Wed	23-dec			
Thu	24-dec			
Fri	25-dec			
Mon	28-dec			
Tue	29-dec			
Wed	30-dec			
Thu	31-dec			
Fri	01-jan			
Mon	04-jan			
Tue	05-jan			
Wed	06-jan			
Thu	07-jan			
Fri	08-jan	9.00-14.00	Examination	CCK - Bo Nilssonsalen

Teachers

AA	Ali Al-Jandeel
AAZ	Aseel Aziz
AC	Axel Carlbring
AK	Angeliki Karambatsakidou
AO	Artur Omar
AS	Albert Sundvall
ASE	Andreas Selin
CW	Christian Werner
DT	Daniel Thor
EA	Edward Azavedo
EN	Eva Nordenskjöld-Kvanta
EW	Erik Wåhlin
FSM	Francisco Sanchez Montiel
GP	Gavin Poludnowski
JHF	Jessica Hultberg Flores
JB	Julia Basu
JSN	Jörgen Scherp Nilsson
LB	Louise Blomkvist
MH	Markus Hulthén
NK	Nils Kadesjö
PCJ	Paulina Cewe Jönsson
PH	Pierre Hillergren
SMK	Shahla Mobini Kesheh

Primary contact persons

AK – Angeliki Karambatsakidou
AP – Anna Prave
SM – Sofia Magrioteli