

FK5036 - Radiation Sources with Medical Applications Schedule HT2026								
28 September 2026 - 6 November 2026 Exam: Friday 6 November 2026								
Week	Day	Date	Time	Lecture	Lecturer	Room	Literature	Comment
40	Mon	28-09-2026	10.00-12.00	Information about Sjukhusfysikerprogrammet and study techniques	EKL	BN lecture room		
			13.00-14.00	Administrative information about the course	ML	BN lecture room		
			14.00-16.00	Introduction about radiation physics	ML	BN lecture room	Lecture notes (LN)	
	Tues	29-09-2026	All day	Radioactivity. Radioactive decay series. Modes of radioactive decays.	ML	Video (pre-recorded lecture)	Krane (K) ch6; Podgorsak (P) Ch 10, LN	Flipped classroom I - compulsory activity
	Wed	30-09-2026	13.00-15.00	Discussion/tutorial on Radioactivity	ML	BN lecture room		It is compulsory to have watched the related video before attending this class
	Thurs	01-10-2026	09.00-12.00	Exercises on Radioactivity	SK	BN lecture room		
			13.00-14.30	Alpha decay	ML	BN lecture room	K 8, P 11, LN	
	Fri	02-10-2026	13.00-16.00	Exercises on Alpha decay	SK	BN lecture room		
41	Mon	05-10-2026	10.00-12.00	Beta decay	ML	BN lecture room	K 9, P 11, LN	
	Tues	06-10-2026	09.30-11.30	Gamma decay	ML	BN lecture room	K 10, P 11, LN	
			11.30-12.30	WORKSHOP I - Mindmap	ML	BN lecture room		Compulsory activity
			14.00-15.00	Understanding the radioactive decay scheme		Video (pre-recorded lecture)		Flipped classroom II - compulsory activity
	Wed	07-10-2026	09.30-10.30	Understanding the radioactive decay scheme	SK	BN lecture room		It is compulsory to have watched the related video before attending this class
			10.30-12.00	Exercises on Beta and Gamma decay	SK	BN lecture room		
			LUNCH TIME	Kursforum discussion among students	Only students	BN lecture room		
			13.00-15.00	Exercises on Beta and Gamma decay	SK	BN lecture room		
	Thurs	08-10-2026		Deadline to submit the answer to assignment 1				Compulsory activity
			13.30-15.30	Exercises in class	SK	BN lecture room		
	Fri	09-10-2026	09.00-12.00	Exercises in class	SK	BN lecture room		
			13.00-16.00	WORKSHOP II - Theory questions	ML	BN lecture room		Compulsory activity
42	Mon	12-10-2026	All day	Nuclear reactions (theory)	ML	Video (pre-recorded lecture)	K 11, P 5, LN	Flipped classroom III - compulsory activity
				Deadline to submit the peer-review of assignment 1				Compulsory activity
	Tues	13-10-2026	09.00-10.00	How to write a lab report	FB	BN lecture room		
			10.00-10.30	Introduction to laboratory exercises	FB	BN lecture room		
			10.30-12.00	Interactions of photons with matter, interaction processes in the detectors, measurements of signals	ML	BN lecture room		
			13.00-13.30	Radiation Protection aspects during laboratory exercises	ML	BN lecture room		
			13.30-14.30	Kursforum discussion with teacher	Course coordinator and class representatives	ML's office		
	Wed	14-10-2026	09.00-12.30	PRESENTATION of ASSIGNMENT 1 (radioactivity)	SK	BN lecture room		Compulsory activity
	Thurs	15-10-2026	09.30-12.00	Discussion on Nuclear reactions	ML	BN lecture room		It is compulsory to have watched the related video before attending this class
			13.00-15.00	Exercises in class	SK	BN lecture room		
				Deadline to submit the answer to assignment 2				Compulsory activity
	Fri	16-10-2026	09.30-12.00	Exercises in class	SK	BN lecture room		
				Deadline to submit the peer-review of assignment 2				Compulsory activity

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43	Mon	19-10-2026	13.00-16.00	PRESENTATION of ASSIGNMENT 2 (alpha, beta, gamma decays)	SK	BN lecture room		Compulsory activity
	Tues	20-10-2026	09.30-12.30	Nuclear reactions (exercises)	ML	BN lecture room		
			13.30-15.30	Exercises in class	SK	BN lecture room		Compulsory activity
	Wed	21-10-2026	10.00-12.00	Video on electron and ion accelerators	FH	Video (pre-recorded lecture)		Flipped classroom IV - compulsory activity
	Thurs	22-10-2026	09.30-12.30	Fission and fusion (theory)	ML	BN lecture room	K 13, K 14, LN	
	Fri	23-10-2026	09.30-12.30	Fission and fusion (exercises)	ML	BN lecture room		
			13.00-15.30	Tutorial on accelerators	FH	BN lecture room		It is compulsory to have watched the related video before attending this class
44	Mon	26-10-2026	09.00-12.00	LAB Group 1	FB	Albanova		Compulsory activity
			12.00-15.00	LAB Group 2	FB	Albanova		Compulsory activity
			15.00-18.00	LAB Group 3	FB	Albanova		Compulsory activity
	Tues	27-10-2026	09.00-12.00	LAB Group 4	FB	Albanova		Compulsory activity
			12.00-15.00	LAB Group 5	FB	Albanova		Compulsory activity
			15.00-18.00	LAB Group 6	FB	Albanova		Compulsory activity
	Wed	28-10-2026	09.00-12.00	LAB Group 7 (if needed)	FB	Albanova		Compulsory activity
			12.00-15.00	LAB Group 8 (if needed)	FB	Albanova		Compulsory activity
			15.00-18.00	LAB Group 9 (if needed)	FB	Albanova		Compulsory activity
	Thurs	29-10-2026	Day free for studying					
	Fri	30-10-2026	Day free for studying					
	45	Mon	02-11-2026	09.30-12.00	Production of radionuclides (theory and exercises)	ML	BN lecture room	P 12, LN
13.00-14.00				Production of radionuclides (theory and exercises)	ML	BN lecture room		
Tues		03-11-2026	Day free for studying					
Wed		04-11-2026	Day free for studying					
Thurs		05-11-2026	Day free for studying					
Fri		06-11-2026	10.00-15.00	EXAM	ML, SK	TBA		

ML = Marta Lazzeroni | SK = Suryakant Kaushik | FH = Fredrik Hellberg | FB = Federico Bonaldo | EKL = Emely Kjellsson Lindblom

Compulsory activities are indicated in red. Pre-recorded/video activities are indicated in blue.