MAGNETIC RESONANCE IMAGING COURSE 2025, FK8032

Schedule

Week	Date	Time	Lecture	Location	Teacher
8	Wed 19 feb	09:00-09:45	Course introduction	MSF/CCK	LEN
		10:00-11:00	MRI overview	MSF/CCK	RVP
		11:00-12:00	Basic physics of MRI part 1	MSF/CCK	HVL
		13:00-15:00	Basic Physics of MRI part 2	MSF/CCK	HVL
	Thu 20 feb	09:30-11:30	Spatial encoding	MSF/CCK	SP
		12:30-14:30	Image contrast	MSF/CCK	HVL
	Fri 21 feb	09:30-11:30	Relaxation	MSF/CCK	SNA
		12:30-14:30	Pulse sequences part 1	MSF/CCK	YW
		15:00-16:30	MR-safety theory	NKS B6-10	LEN
		16:30-17:00	MR-safety hands on	NKS B6:11	LEN
	22-23 feb				
9	Mon 24 feb	09:30-11:30	Pulse sequences part 2	MSF/CCK	YW
		12:30-14:30	Complex k-space and image space	MSF/CCK	SP
	Tue 25 feb	9:30:-11:30	Sequence parameters & artifacts	MSF/CCK	HVL
		12:30-14:00	MRI hardware	MSF/CCK	LEN
		14:00-15:30	Biological effects	MSF/CCK	LEN
	Wed 26 feb	**09:30-11:30**	Time for questions	MSF/CCK	All
		12:30-14:30	Clinical applications	MSF/CCK	HM
		14:30-15:30	Clinical protocols	MSF/CCK	HM
	Thu 27 feb	Study time			
	Fri 28 feb	13:00-15:00	BONUS EXAM	MSF/CCK	YD
	1-2 mar				
10	Mon 3 mar	09:00-13:00	k-space lab (report)	MSF/CCK computer room	AF
	Tue 4 mar	09:30-11:30	The role of fat	MSF/CCK	EP
		12:30-13:30	Acceptance testing	MSF/CCK	YD
	Wed 5 mar	09:00-12:00	Auscultation	*TBD*	
	Thu 6 mar	12:00-16:00	Acceptance test lab (report)	Q	YD/EP
	Fri 7 mar	09:30-14:30	Artifact lab (report)	Q	LEN/TD
	8-9 mar				
11	Mon 10 mar	Time for lab reports			
	Tue 11 mar	09:30-11:30	Parallel imaging	MSF/CCK	YD

		12:30-14:30	**Partial Fourier techniques**	MSF/CCK	SNA
	Wed 12 mar	09:30-11:30	**Kursforum & Bonus Exam walkthrough**	MSF/CCK	LEN
		12:30-14:30	**Implants in an MRI environment**	MSF/CCK	LEN
	Thu 13 mar	09:00-10:00	**fMRI**	MSF/CCK	TJ
		10:00-11:00	**Perfusion**	MSF/CCK	AL
		12:00-13:00	**Flow, angiography, cardiac MRI**	MSF/CCK	AF
	Fri 14 mar	09:00-14:00	**Protocol optimization**	Q	LEN/TD
	15-16 mar				
12	**Mon 17 mar**	**Time for lab reports & reading**			
	Tue 18 mar	09:00-11:00	**MR-RT**	MSF/CCK	EP
		11:00-12:00	**Procurement**	MSF/CCK	LEN
		13:00-14:00	**Site planning**	MSF/CCK	LEN
	Wed 19 mar	09:00-11:00	**Pulse sequence exercise**	MSF/CCK	AL/YW
	Thu 20 mar	09:30-11:30	**Diffusion**	MSF/CCK	EP
		11:30-12:00	**Journal introduction**	MSF/CCK	LEN
	Fri 21 mar	**Journal work**			
	22-23 mar				
13	**Mon 24 mar**	09:00-14:00	**Journal presentation**	MSF/CCK	LEN
	Tue 25 mar	09:30-11:30	**MRS**	MSF/CCK	SNA
		12.30-15:30	**Relaxation exercise**	MSF/CCK computer room	HVL
	Wed 26 mar	**Study time**			
	Thu 27 mar	09:30-11:30	**Time for questions**	MSF/CCK	ALL
	Fri 28 mar	**Study time**			
	29-30 mar				
14	**Mon 31 mar**	**Study time**			
	Tue 1 apr	10:00-15:00	**FINAL EXAM**	MSF/CCK	

***Red = mandatory moments**

Lecturers

AL	Andreas Lambert	SNA	Sahar Nikkhou Aski
AF	Alexander Fyrdahl	SP	Sven Petersson
EP	Emilia Palmér	TJ	Tomas Jonsson
HM	Heather Martin	TD	Torsten Dorniok
HVL	Hadrien Van Loo	YW	Yanlu Wang
LEN	Love Engström Nordin (Course coordinator)	YD	Yulia Dragunova
RVP	Roberto Vargas Paris		