

Timetable: A Training Course in MRI and MRS (2010)

	Monday 1st November	
9.30	Welcome and Introduction	G Payne
9.40	Lecture 1. Basis of NMR	W Vennart
10.25	Lecture 2. Relaxation parameters and spin echoes	M Orton
11.10	Coffee	
11.45	Lecture 3 Magnetic field gradients, slice selection, frequency encoding	G Payne
12.30	Tutorial 1 in small groups	
13.00	Lunch	
14.00	Lecture 4. 2-D FT Imaging, k-space	W Vennart
14.45	Lecture 5. Basic Imaging Sequences: Spin-echo, gradient echo	G Payne
15.30	Tea	
16.00	Tutorial 2 in small groups	
16.45	Lecture 6 Hardware – Magnets, Gradients and Eddy Currents	W Vennart
17.30	Demonstration on scanner. Groups 1 and 2	G Payne
	Tuesday 2nd November	
9.30	Lecture 7. Image contrast, resolution and signal-to-noise	S Doran
10.15	Tutorial 3 in small groups	
11.00	Coffee	
11.30	Lecture 8. MRI in Practice	M Schmidt
12.15	Lecture 9. Image Artefacts	S Doran
13.00	Lunch	
14.00	Lecture 10. Advanced Pulse Sequences and techniques	S Doran
14.45	Lecture 11. Hardware: RF requirements and RF coils	G Charles-Edwards
15.30	Tea	
16.00	Tutorial 4 in small groups	
16.45	Lecture 12. Safety Considerations	G Charles-Edwards
17.30	Demonstration on scanner. Group 3 & 4	G Payne
	Wednesday 3rd November.	
9.30	Lecture 13. Introduction to <i>in vivo</i> MR Spectroscopy	G Payne
10.15	Lecture 14. Processing MRS data	P Murphy
11.00	Coffee	
11.30	Lecture 15. Single voxel MRS	M Jafar
12.15	Tutorial 5 in small groups	
13.00	Lunch	
14.00	Lecture 16. Introduction to Spectroscopic Imaging (CSI)	G Payne
14.45	Lecture 17. Flow and MR Angiography	M Graves
15.30	Tea	
16.00	Lecture 18. Introduction to Perfusion, Diffusion and Functional MRI	M Graves
16.45	Lecture 19. Clinical Examples of MR	N deSouza
17.30	Close	