

PHYSICS OF MEDICAL IMAGING COURSE

Course 2 – Ultrasound Imaging –Timetable 12-14 November 2024

Video meeting room 1 & 2, First floor,
Brookes Lawley Building,
Institute of Cancer Research,
15 Cotswold Road,
Belmont, Sutton,
Surrey SM2 5NG

12 November	Ultrasound Imaging: Day 1
09:00 – 09:30	Registration & Coffee (Second floor, BLB)
09:30 – 10:15	Physical principles of ultrasound <i>Prof Jeff Bamber</i>
10:15 – 11:00	Physical principles of ultrasound <i>Prof Jeff Bamber</i>
11:00 – 11:30	Coffee
11:30 – 12:15	Physical principles of ultrasound <i>Prof Jeff Bamber</i>
12:15 – 13:00	Physical principles of ultrasound <i>Prof Jeff Bamber</i>
13:00 – 14:00	Lunch
14:00 – 14:45	Engineering principles of ultrasound <i>Prof Jeff Bamber</i>
14:45 – 15:30	Engineering principles of ultrasound <i>Prof Jeff Bamber</i>
15:30 – 16:00	Tea
16:00 – 16:45	Engineering principles of ultrasound <i>Prof Jeff Bamber</i>

13 November	Ultrasound Imaging: Day 2
09:30 – 10:15	Engineering principles of ultrasound <i>Prof Jeff Bamber</i>
10:15 – 11:00	Engineering principles of ultrasound <i>Prof Jeff Bamber</i>
11:00 – 11:30	Coffee
11:30 – 12:15	Bioeffects and safety <i>Dr Ian Rivens</i>
12:15 – 13:00	Bioeffects and safety <i>Dr Ian Rivens</i>
13:00 – 14:00	Lunch
14:00 – 15:30	State-of-the-art scanning techniques and research: Presentations on general imaging, elasticity imaging, and our research projects <i>Ultrasound teams</i>
15:30 – 16:00	Tea
16:00 – 16:45	Applications of ultrasound imaging to cancer therapies <i>Dr Emma Harris</i>

14 November	Ultrasound Imaging: Day 3
09:15 – 10:00	Quality assurance of diagnostic devices <i>Mr M O'Leary</i>
10:00 – 10:45	Quality assurance of diagnostic devices <i>Mr M O'Leary</i>
10:45 – 11:00	Coffee
11:00 – 12:00	Hands-on session: basic measurements and quality assurance (including hydrophones, radiation force balance, attenuation measurement and quality assurance phantoms) <i>Ultrasound teams</i>
12:00 – 13:00	Lunch
13:00 – 14:00	Hands-on session 2
14:00 – 15:30	Quiz and answers <i>Mr M O'Leary</i>
15.30	End of course