

PHYSICS OF MEDICAL IMAGING COURSE

Course 2

Ultrasound Imaging Course – Provisional Timetable

10-12 November 2026

| 10 November | Ultrasound Imaging: Day 1 |
|---------------|-----------------------------------------------------------------|
| 09:00 – 09:30 | Registration & Coffee |
| 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 | Bioeffects and safety <i>Dr Ian Rivens</i> |
| 14:45 – 15:30 | Bioeffects and safety <i>Dr Ian Rivens</i> |
| 15:30 – 16:00 | Tea |
| 16:00 – 16:45 | Engineering principles of ultrasound <i>Prof Jeff Bamber</i> |

| 11 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 | Engineering principles of ultrasound <i>Prof Jeff Bamber</i> |
| 12:15 – 13:00 | Applications of ultrasound imaging to cancer therapies <i>Dr Emma Harris</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 | Engineering principles of ultrasound <i>Prof Jeff Bamber</i> |

| 12 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 |