

**Radiation Dosimetry, Imaging for Radiotherapy Treatment Planning & Patient
Specific Dosimetry
Brooks-Lawley Building Lecture Theatre - Sutton**

Day 1: Tuesday 7th November 2023		
Imaging for Radiotherapy		
08.30 -		
09.00	Registration & Coffee	
09.00 -	Welcome & Introduction	
09.10		
09.15 –	Radiotherapy for Paediatric CNS and other tumours	TBA
10.00		
10.05 –	CT & CBCT Radiotherapy Planning	TBA
10.55		
11.00	Refreshments	
11.20 –	PET Imaging for Radiotherapy Planning	TBA
12.10		
12.15 –	MR Imaging for Radiotherapy Planning	TBA
13.00		
13.00	Lunch	
14.00 –	Photon Interaction Mechanisms	TBA
15.00		
15.05 -	Adaptive Radiotherapy for Bladder Cancer & lower GI in	TBA
15.50	Clinical Practice	
15.55	Refreshments	
16.20 –	Charged Particle Interactions	TBA
17.15		
18.45	Course Meal	
Day 2: Wednesday 8th November 2023		
Radiation Dosimetry		
09.00 -	Applications of Monte Carlo Methods	TBA
09.50		
09.55 -	Fundamental Principles of Dosimetry I	TBA
10.45		
10.50	Refreshments	
11.10 -	Ionisation Chamber Design & Measurements	TBA
12.05	Practice	
12.10 -	Practical Implementation of New Techniques in the	TBA
12.50	Clinic	
12.55	Lunch	
13.55 -	Fundamental Principles of Dosimetry II	TBA
14.45		
14.50 -	Radiation detectors	TBA
15.30		
15.35	Refreshments	
15.55 -	Radiotherapy for Head and Neck	TBA
16.40		
16.45 -	Characteristics & Calculations for Photon Beams	TBA
17.35		

Day 3: Thursday 9th November 2023
Treatment Planning

09.00 - 09.40	Radiotherapy for Breast Cancer: Current and Future Practice	TBA
09.45 – 10.45	Inverse Treatment Planning for IMRT & VMAT	TBA
10.50	Refreshments	
11.10 – 11.50	Adaptive Pathway	TBA
11.55 – 12.50	Photon Beam Algorithms in Treatment Planning	TBA
12.55	Lunch	
13.55 - 14.40	Stereotactic Body Radiotherapy (SBRT) for Lung Tumours	TBA
14.45 - 15.35	Radiotherapy with Protons	TBA
15.40	Refreshments	
16.00 - 16.45	Radiotherapy for Oesophageal and Liver Cancer	TBA
16.50 – 17.35	Large field Techniques in Radiotherapy	TBA

Day 4: Friday 10th November 2023
Patient Specific Dosimetry

09.00 – 09.55	Intensity Modulated Radiotherapy (IMRT) Algorithms	TBA
10:00 - 10.50	Prostate Cancer: EXBRT Techniques and Trials	TBA
10.55	Refreshments	
11.10 – 11.55	Electron Beam Therapy in Clinical Practice	TBA
12.00 – 12.45	Evaluation Tools in Treatment Planning	TBA
12.50	Lunch	
13.50 – 14.45	Treatment Planning Margins; ICRU 50,62 and 83	TBA
14.45 - 15.25	Treatment Planning – ‘Air Space’	TBA
15.30 - 15.55	Independent Verification for IMRT	TBA
16.00	Refreshments	
16.15 - 17.00	Quality Control in Treatment Planning	TBA
17.05 - 17.35	Quality Control in Treatment Planning – Checking	TBA
17.40 – 17.50	Quiz on Radiotherapy Dosimetry	TBA
17.55	Cheese & Wine Evening	