

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

Day 1: Tuesday 5th November 2024

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 6th November 2024

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 -	Fundamental Principles of Dosimetry II	TBA
12.00		
12.05 –	Radiotherapy for Oesophageal and Liver Cancer	TBA
12.50		
13.00	Lunch	
14.00 -	Ionisation Chamber Design & Measurements	TBA
14.50	Practice	
14.55 -	Radiation detectors	TBA
15.35		
15.40	Refreshments	
16.05 -	Radiotherapy for Head and Neck	TBA
16.45		
16.50 –	Evaluation Tools in Treatment Planning	TBA
17.40		

Day 3: Thursday 7th November 2024
Treatment Planning

09.00 - 09.40	Radiotherapy for Breast Cancer: Current and Future Practice	TBA
09.45 – 10.35	Photon Beam Algorithms in Treatment Planning	TBA
10.40	Refreshments	
11.00- 11.55	Treatment Planning Margins; ICRU 50,62 and 83	TBA
12.00 – 12.50	Prostate Cancer: Techniques and Trials	TBA
12.55	Lunch	
13.55 - 14.40	Stereotactic Body Radiotherapy (SBRT) for Lung Tumours	TBA
14.45 – 15.40	Characteristics & Calculations for Photon Beams	TBA
15.45	Refreshments	
16.05 – 17.05	Inverse Treatment Planning for IMRT & VMAT	TBA
17.05 – 17.55	Applications of AI in Radiotherapy - NEW	TBA

Day 4: Friday 8th November 2024
Treatment Planning II

09.00 – 09.40	Practical Implementation of New Techniques in the Clinic	TBA
09.45 – 10.35	Intensity Modulated Radiotherapy (IMRT) Algorithms	TBA
10.40	Refreshments	
11.10 – 11.45	Electron Beam Therapy in Clinical Practice	TBA
11.50 – 12.30	Adaptive Pathway	TBA
12.35	Lunch	
13.40 – 14.20	Treatment Planning – ‘Air Space’	TBA
14.25 - 15.15	Radiotherapy with Protons	TBA
15.20 - 15.45	Independent Verification for IMRT	TBA
15.50	Refreshments	
16.10 - 16.55	Quality Control in Treatment Planning	TBA
17.00 - 17.30	Quality Control in Treatment Planning – Checking	TBA
17.35 – 17.45	Quiz on Radiotherapy Dosimetry	TBA
17.55	Cheese & Wine Evening	

**Day 5: Saturday 9th November 2024
Workshop Sessions**

Assembly Point: Radiotherapy Atrium at 9.00 am

	9.15	10.05	11.15	12.05
Planning 1: Adaptive	A	D	C	B
Planning 2: Robustness	B	A	D	C
Dosimetry: Electrons & Photons	C	B	A	D
MR Linac	D	C	B	A

**Evaluation forms will be collected at the end of the last session
Approx. end time 1.15pm
Please have them ready. Thank you**

End of Course