

Accelerator Design, Radiobiology & Quality Assurance, Brachytherapy & Radiotherapy Verification Imaging

Day 1: Tuesday 5th March 2024

08.25	Registration	
08.55 - 09:00	Welcome & Introduction	
09.05 - 09.55	Medical electron Linear Accelerators	TBA
10.00 – 10.55	Quality Control of Linacs	TBA
11.00	Refreshment break & discussion	
11.40 – 12.20	Production of a Clinical Beam	TBA
12.25 – 13.05	Multileaf Collimators: Characteristics & Commissioning	TBA
13.05	Lunch break	
14.05 – 15.05	Radiotherapy Fractionation	TBA
15.05 – 15.35	Managing Gaps	TBA
15.40	Refreshment break	
16.00 – 16.55	Accuracy and Quality in Radiotherapy: An overview	TBA
17.00 – 17.40	IGRT Techniques	TBA

Day 2: Wednesday 6th March 2024

09.00 - 09.40	Extremes II: Cyberknife	TBA
09.45 – 10.45	Practical use of Radiobiology in Treatment Planning	TBA
10.50	Refreshment break	
11.10 – 11.45	Introduction to Cell Biology	TBA
11.50 – 12.45	Tumour Cell Radiobiology	TBA
12.50	Lunch break	
13.55 – 14.35	Radiobiology of normal tissues: A clinical perspective	TBA
14.40 – 15.35	Modelling the probability of Tumour Control (TCP)	TBA
15.40	Refreshment break	
16.00 – 16.55	Modelling Normal Tissue Complication Probability	TBA
17.00 – 17.45	Extremes III: Tomotherapy	TBA

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Day 3: Thursday 7th March 2024

09.00 –	Clinical Indications for Brachytherapy	TBA
09.40		
09.45 –	Intracavitary Dosimetry	TBA
10.15		
10.20 –	Calibration and QA of Brachytherapy Sources	TBA
10.45		
10.50	Refreshment break	
11.15 –	Gynaecology Cancers	TBA
12.05		
12.10 –	Transperineal Prostate Brachytherapy	TBA
12.45		
12.50	Lunch break	
13.50 –	The Radiobiology of Brachytherapy	TBA
14.35		
14.40 –	3D Image based Brachytherapy Planning	TBA
15.40		
15.45	Refreshment break	
16.00 –	Radiation Protection Issues in Brachytherapy	TBA
16.40		

Day 4: Friday 8th March 2024

09.00 –	Radiation Protection in External Beam	TBA
09.40	Radiotherapy	
09.45 –	Image Handling in Radiotherapy	TBA
10.40		
10.45	Refreshment break	
11.05 –	Errors & Margins in Image Guided Radiation	TBA
12.00	Therapy & SBRT	
12.05 –	Extremes I: kV X-ray Units	TBA
12.35		
12.40	Lunch break	
13.55 –	IT Essentials for Radiotherapy	TBA
14.35		
14.40 –	Image Guidance in Radiotherapy: Accuracy,	TBA
15.35	Frequency & Dose & MPE Trials	
15.40	Refreshment break	
16.00 –	Quality Assurance In Clinical Trials	TBA
16.30		
16.35 –	MR Linacs	TBA
17.15		
17.20	Cheese & Wine	

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Day 5: Saturday 9th March 2024

Workshop Sessions

Practical Workshop Sessions

Assembly Point: Radiotherapy Basement at 9.00 am

	09.15	10.05	10.50	11.15	12.05
Basic QA	1	2		3	4
Franklin					
Brachytherapy Treatment Planning – CT and MRI image based	2	3		4	1
Master Plan					
Iodine seeds & ultrasound for Prostate and examples	3	4		1	2
Beige Planning					
HDR, QA & Source Calibration	4	1		2	3
HDR Treatment Suite					

**Evaluation forms will be collected at the end of the course
Thank you**