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

Day 1: Tuesday 4th March 2025

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08.25	Registration with coffee						
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 –	Multileaf Collimators: Characteristics &						
13.05 13.05	Commissioning Lunch break	TBA					
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					
	Course Meal						
Day 2: Wednesday 5th March 2025							
09.00 - 09.40	Cyberknife	TBA					
09.45 – 10.45	Practical use of Radiobiology in Treatment Planning	TBA					
10.50	Refreshment break						
11.10 –	Introduction to Cell Biology	TBA					
11.45							
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 –	Tomotherapy	TBA					

17.45

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Day 3: Thursday 6th March 2025

09.00 - 09.40	Clinical Indications for Brachytherapy	TBA
09.45 – 10.15	Intracavitary Dosimetry	TBA
10.20 – 10.45	Calibration and QA of Brachytherapy Sources	ТВА
10.50	Refreshment break	
11.15 – 12.05	Gynaecology Cancers	ТВА
12.10 – 12.45	Transperineal Prostate Brachytherapy	TBA
12.50	Lunch break	
13.50 – 14.35	The Radiobiology of Brachytherapy	TBA
14.40 – 15.40	3D Image based Brachytherapy Planning	V
15.45	Refreshment break	
16.00 – 16.40	Radiation Protection Issues in Brachytherapy	ТВА
	Day 4: Friday 7th March 2025	
09.00 – 09.40	Radiation Protection in External Beam Radiotherapy	TBA
09.45 – 10.40	Image Handling in Radiotherapy	TBA
10.45	Refreshment break	
11.05 – 12.00	Errors & Margins in Image Guided Radiation Therapy & SBRT	TBA
12.05 – 12.35	kV X-ray Units	TBA
12.40	Lunch break	
13.55 – 14.35	IT Essentials for Radiotherapy	TBA
14.40 – 15.35	Image Guidance in Radiotherapy: Accuracy, Frequency & Dose & MPE Trials	TBA
15.40	Refreshment break	
16.00 – 16.30	Quality Assurance In Clinical Trials	TBA
16.35 – 17.15	MR Linacs	TBA
17.20	Cheese & Wine	

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Day 5: Saturday 8th March 2025 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	2	_			_
Brachytherapy Treatment Planning – CT and MRI image based		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