

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

<b>Day 1: Tuesday 6<sup>th</sup> November 2018</b>		
08.30 - 09.00	Registration & Coffee	
09.00 - 09.10	Welcome & Introduction	Dr Vibeke Hansen
09.15 - 10.05	Photon Interaction Mechanisms	TBA
10.10 - 11.00	Fundamental Principles of Dosimetry I	TBA
11.05	Refreshments	
11.20 – 12.00	Radiotherapy & Cancer specific Lung Cancer	TBA
12.05 – 12.55	Electron Interaction Mechanisms	TBA
13.00	Lunch	
14.00 - 14.50	Fundamental Principles of Dosimetry II	TBA
14.55 – 15.50	PET Imaging for Radiotherapy Planning	TBA
15.55	Refreshments	
16.15 - 17.00	Ionisation Chamber Design & Measurements Practice	TBA
17.05 - 17.50	Evaluation Tools in Treatment Planning	TBA
18.30	Course Meal	

<b>Day 2: Wednesday 7<sup>th</sup> November 2018</b>		
09.00 - 09.50	Applications of Monte Carlo Methods	TBA
09.55 - 10.40	MR Imaging for Radiotherapy Planning	TBA
10.45	Refreshments	
11.05 - 11.55	Characteristics & Calculations for Photon Beams	TBA
12.00 – 12.50	Photon Beam Algorithms in Treatment Planning	TBA
12.55	Lunch	
13.55 - 14.45	CT & CBCT Radiotherapy Planning	TBA
14.50 - 15.40	Treatment Planning Margins; ICRU 50,62 & 83	TBA
15.45	Refreshments	
16.05 - 16.35	Quality Control in Treatment Planning	TBA
16.40 - 17.10	Quality Control in Treatment Planning - Checking	TBA
17.15 –	Quiz on Radiotherapy Dosimetry	TBA

<b>Day 3: Thursday 8<sup>th</sup> November 2018</b>		
09.00 - 09.50	Prostate Cancer: XBRT Techniques and Trials	TBA
09.55 - 10.50	Radiotherapy with Protons	TBA
10.55	Refreshments	
11.15 - 12.05	Intensity Modulated Radiotherapy (IMRT) Algorithms	TBA
12.10 – 13.00	Inverse Treatment Planning for IMRT & VMAT	TBA
13.10	Lunch	
14.10 - 15.10	Electron Beam Therapy in Clinical Practice	TBA
15.15 - 16.00	Radiotherapy for Oesophageal and Liver Tumours	TBA
16.05	Refreshments	
16.20 - 17.00	Radiotherapy for Head and Neck	TBA

<b>Day 4: Friday 9<sup>th</sup> November 2018</b>		
09.00 - 09.40	Radiotherapy for Breast Cancer: Current and Future Practice	TBA
09.45 – 10.30	Radiochromic Film Dosimetry	TBA
10.35	Refreshments	
10.55 - 11.35	Adaptive Radiotherapy for Bladder Cancer & lower GI in Clinical Practice	TBA
11.40 – 12.25	Large field Techniques in Radiotherapy	TBA
12.30	Lunch	
13.35 - 14.20	Stereotactic Body Radiotherapy (SBRT) for Lung Tumours	TBA
14.25 - 15.05	<i>In Vivo</i> Dosimetry for Point Measurements	TBA
15.10- 15.40	Verification for IMRT	TBA
15.40	Refreshments	
16.00 – 16.45	Dosimetry for Molecular Radiotherapy	TBA
16:50- 17.35	Practical Implementing of New Techniques in the Clinic	TBA
17.30	Cheese & Wine Evening	

**Day 5: Saturday 10<sup>th</sup> November 2018  
Workshop Sessions**

<p><b>Practical Workshop Sessions</b> <b>Assembly Point: Radiotherapy Atrium at 8.30 am</b></p>
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	08.45	09.25	10.05	10.45	11.15	11.55	12.35
Forward and Inverse Planning for pelvis IMRT on Pinnacle	A	B	C		D	E	F
TPS commissioning Infrastructure, set-up, Beam modelling and documentation	C	A	B		F	D	E
Image Fusion, & Whole CNS Planning on Pinnacle	B	C	A		E	F	D
Inverse Planning for VMAT and SBRT, RayStation and AutoBeam	D	E	F		A	B	C
Electron & Photon Beam Calibration Dosimetry	F	D	E		C	A	B
Treatment Plan Verification & <i>In Vivo</i> Dosimetry	E	F	D		B	C	A

<p><b>Evaluation forms will be collected during the refreshment break at 10.45 am. Please have them ready. Thank you</b></p>
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<p><b>End of Course</b></p>
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