

FRCR Teaching Schedule December 6th December – 10th December 2021

Day	Time	Lecture
Monday 6th	9.00-10:00	1. Basic Physics
	10:00-11:00	2. EM Radiation Interactions with matter
	11:30-12:30	3. Interactions of particles with matter
	13:30-14:30	4. Factors defining properties of a radiation beam (PDDs)
	14:30-15:30	5. Megavoltage treatment equipment
	16:00-17:00	6. kV Superficial equipment
Tuesday 7th	09:00-10:00	Tutorial (1)
	10:00-11:00	7. Beam Parameters for X-rays
	11:30-12:30	8. Principles of Radiation dosimetry
	13:30-14:30	9. Methods of Measurement
	14:30-15:30	10. Calibration methods and practical dose measurement
	16:00-17:00	11. Radiation Protection
Wednesday 8th	09:00-10:00	Tutorial (2)
	10:00-11:00	12. Principles of Treatment Planning (1)
	11:30-12:30	13. Principles of Treatment Planning (2)
	13:30-14:30	14. Principles of Treatment Planning (3)
	14:30-15:30	15. Independent dose calculations
	16:00-17:00	16. Electron Beam Physics
Thursday 9th	09:00-10:00	Tutorial (3)
	10:00-11:00	17. Radiation sources
	11:30-12:30	18. Brachytherapy
	13:30-14:30	19. Unsealed sources
	14:30-15:30	20. Proton Beam Therapy
	16:00-17:00	21. Verification techniques



Friday 10th	09:00-10:00	Tutorial (4)
	10.00-11.00	22. Design of treatment facilities
	11.30-12.30	23. Quality Assurance in Radiotherapy
	13.30-14.00	Assessment

Radiobiology Teaching Schedule Tuesday 14th December 2021

Day	Time	Lecture
Tuesday 14th	09:00-09:30	Introductions
	09:30-10:30	Causation of Human Cancers
Break + Questions		
	10:45-11:45	Tumour Biology, Genetics & Cell Growth
	11:45-12:00	Questions
Lunch		
	13:00-14:00	Role of the Immune System
	14:00-15:00	General Principles of Radiotherapy & Normal Tissue Biology
Break + Questions		
	15:30-16:30	Radiotherapy Fractionation
	16:30-17:00	Summary, Evaluation & Close

Please Note that this timetable is for guidance only and that some sessions/times may alter.

