

Doctor of Philosophy in Radiobiology

1711800 – Department of Radiation Sciences

Admission Requirements : Postgraduate students with a M.Sc. or an equivalent degree in Radiobiology .

Core Courses (18 Cr) : 1711801, 1711802, 1711803, 1711804, 1711805, 1711806, 1711807, 1711808, 1711809,

Elective I (3 Cr): 1711810, 1711811, 1711812, 1711813, 1711814, 1711815

Elective II (3 Cr): 1701820, 1701821, 1704820, 1721820, 1720823.

Ph.D. Thesis : 24 CH.

Core courses (18 Cr)

Code	Name	Hours/Week		Total Cr
		Theoretical	Practical	
1711801	Radiation chemistry	2	2	3
1711802	Radiobiology	2	2	3
1711803	Applications of radiation in Medicine	2	-	2
1711804	Environmental Radiation Sciences	2	-	2
1711805	Radiation and cancer	1	-	1
1711806	Experimental Radiobiology	1	2	2
1711807	Assessment of occupational radiation doses	1	-	1
1711808	Radiation Survey Instrumentation	1	2	2
1711809	Contamination Monitoring Instrumentation	2	-	2
		14	8	18
Elective courses (3 Cr)				
1711810	Generators and radiation power plants	2	-	2
1711811	Nuclear reactors	2	-	2
1711812	Epidemiology of radiations	1	-	1
1711813	Treatment machines for external beam radiotherapy	2	-	2
1711814	External Photon Beam: Physical aspects.	2	-	2
1711815	Clinical treatment planning in external photon beam radiotherapy	2	-	2
Elective courses II (3 Cr)				
1701820	Biochemistry	2	2	3
1701821	Molecular biology	2	2	3
1721820	Medical statistics	2	2	3
1704820	Pharmacology	2	2	3
1720823	Computer	2	2	3