

Master's Program Course Schedule in Radiobiology

First Semester

No.	Course Code	Course Title	Prerequisite/Corequisite	Credits	Theoretical	Practical	Total
1	15810002	Introduction to Radiobiology	-	2	2	-	2
2	15810004	Atomic and Nuclear Physics	-	2	2	-	2
3	15810007	Cellular and Molecular Biology	-	3	3	-	3
4	15810008	Principles of Ionizing Radiation Detection and Dosimetry	-	2	1.5	0.5	2
5	15810010	Biostatistics	-	2	2	-	2
6	15810011	Research Methodology	Biostatistics	1	1	-	1
7	15810019	Technical English	-	2	2	-	2
8	5810029	Medical Information Systems	-	1	0.5	0.5	1

Total Credits: 14 (Theoretical) + 1 (Practical) = 15

Second Semester

No.	Course Code	Course Title	Prerequisite/Corequisite	Credits	Theoretical	Practical	Total
1	15810012	Fundamentals of Clinical Radiobiology	Introduction to Radiobiology	2	2	-	2
2	15810013	Genetics	Cellular and Molecular Biology	2	2	-	2
3	15810014	Cell Culture Techniques	Cellular and Molecular Biology	2	1	1	2
4	15810015	Physical Principles of Laboratory Equipment	-	2	1.5	0.5	2
5	15810018	Working with Laboratory Animals	-	1	0.5	0.5	1
6	15810027	Non-Medical Applications of Radiation	Radiation Physics	2	2	-	2
7	15810029	Cancer Biology	Cellular and Molecular Biology	2	1.5	0.5	2

Total Credits: 10.5 (Theoretical) + 2.5 (Practical) = 13

Third Semester

No.	Course Code	Course Title	Prerequisite/Corequisite	Credits	Theoretical	Practical	Total
1	15810016	Fundamentals of Cellular and Molecular Radiobiology	Introduction to Radiobiology	2	2	-	2
2	15810017	Biodosimetry	-	2	1	1	2
3	15810020	Applied Radiobiology	Fundamentals of Cellular and Molecular Radiobiology	2	1.5	0.5	2
4	15810021	Seminar	-	1	1	-	1
5	15810022	Internship	-	2	-	2	2
6	15810024	Non-Ionizing Radiation and Its Effects	Atomic and Nuclear Physics	2	2	-	2
7	15810028	Application of Radiobiological Models in Radiotherapy	-	2	1.5	0.5	2

Total Credits: 9 (Theoretical) + 4 (Practical) = 13

Fourth Semester

No.	Course Code	Course Title	Prerequisite	Credits	Theoretical	Practical	Total
1	15810023	Thesis	-	6	-	6	6

Total Credits: 6 (Practical) = 6
