



M.Sc. in Medical Nanotechnology Curriculum and Syllabus

SEMESTER 1 (Fall)					
No.	Course Title	Category	Credits	Theoretical Credits	Practical Credits
1	Quantum Physics	Introductory	2	2	-
2	Molecular and Cell Biology	Introductory	2	1.5	0.5
3	Principles of Instrumental Analysis	Introductory	2	1.5	0.5
4	Introduction to Nanotechnology	Introductory	3	3	-
5	Medical Information Systems	Introductory	1	0.5	0.5
6	Chemistry	Introductory	2	2	-
7	Fundamentals of Physiopathology	Introductory	2	2	-
Total Credits			14		
SEMESTER 2 (Spring)					
No.	Course Title	Category	Credits	Theoretical Credits	Practical Credits
8	Nanomaterials and Nanostructures	Core	2	2	-
9	Polymer Science	Introductory	2	2	-
10	Methods of Nanostructure Fabrication	Core	2	1	1
11	Characterization and Analysis Techniques of Nanostructures	Core	2	1.5	0.5
12	Nanobiomedicine 1	Core	2	2	-
Total Credits			10		



SEMESTER 3 (Fall)					
No.	Course Title	Category	Credits	Theoretical Credits	Practical Credits
13	Nanobiotechnology	Core	2	1.5	0.5
14	Drug Delivery Systems	Core	1	1	-
15	Nanobiomedicine 2	Core	2	2	-
16	Nanosafety	Core	2	2	-
17	Advanced Biostatistics	Elective	2	2	-
18	Business Basics in Nanotechnology	Core	2	1	1
19	Seminar	Core	1	1	-
Total Credits			12		
SEMESTER 4 (Spring)					
No.	Course Title	Category	Credits	Theoretical Credits	Practical Credits
20	Modeling at Nanoscale	Core	2	1	1
21	Thesis	Research	6	-	-
Total Credits			8		