

**13.Courses of Study and Scheme of Assessment
M.Tech Nanoscience and Technology**

**(2021 REGULATIONS)
(Minimum No. of credits to be earned: 70*)**

Course Code	Course Title	Hours/Week			Credits	Maximum Marks			CAT
		Lecture	Tutorial	Practical		CA	FE	Total	
III SEMESTER									
21LN__	Professional Elective – IV	3	0	0	3	50	50	100	PE
21LN__	Open Elective	3	0	0	3	50	50	100	OE
21LN71	Project Work I	0	0	12	6	50	50	100	EEC
Total 18 hrs		6	0	12	12	150	150	300	
IV SEMESTER									
21LN81	Project Work II	0	0	24	12	50	50	100	EEC
Total 24 hrs		0	0	24	12	50	50	100	
PROFESSIONAL ELECTIVE THEORY COURSES (Four to be opted)									
21LN21	Nanostructures in Medicine	3	0	0	3	50	50	100	PE
21LN22	Nanotherapeutics	3	0	0	3	50	50	100	PE
21LN23	Regenerative Medicine	3	0	0	3	50	50	100	PE
21LN24	Photovoltaic Technology	3	0	0	3	50	50	100	PE
21LN25	Biomolecular Nanotechnology	3	0	0	3	50	50	100	PE
21LN26	Polymer Nanocomposites	3	0	0	3	50	50	100	PE
21LN27	Nanophotonics	3	0	0	3	50	50	100	PE
21LN28	Biomaterials and Tissue Engineering	3	0	0	3	50	50	100	PE
21LN29	Polymer Electronics	3	0	0	3	50	50	100	PE
21LN30	Nanobiomaterials	3	0	0	3	50	50	100	PE
21LN31	Nanotoxicology	3	0	0	3	50	50	100	PE
21LN32	Nanotechnology for Energy systems	3	0	0	3	50	50	100	PE
21LN33	Nanocomputing	3	0	0	3	50	50	100	PE
21LN34	Product Design, Management Techniques and Entrepreneurship	3	0	0	3	50	50	100	PE
21LN35	Nanosensors and Devices	3	0	0	3	50	50	100	PE
21LN36	Data Structures and Algorithms	3	0	0	3	50	50	100	PE
21LN37	Nanobiotechnology	3	0	0	3	50	50	100	PE
21LN38	Quantum Mechanics	3	0	0	3	50	50	100	PE
Open Electives									
21LV91	Smart Cities	3	0	0	3	50	50	100	OE
21LV92	Radiation Hazards	3	0	0	3	50	50	100	OE

* Indicated is the minimum number of credits to be earned by a student.

CAT – Category; PC – Professional Core; PE - Professional Elective; RMC - Research Methodology and IPR; EEC – Employability Enhancement Course; MC - Mandatory Course; Grade – Completed / Not completed; OE – Open elective

NOTE: We can add tutorial 1 hr (1 credit) for the courses with no lab if necessary