Faculty of Technology M.Tech. Nano Science and Technology (R 2021) Semester – I

Course Code: NT4111 Course Title: Computation and Simulation Laboratory				
SI. No.	Description of Equipment	Required numbers (for batch of 25 students)		
1	Desktop computer systems with i5 processor	5 to 6 systems		
2	Matlab software for computations	1 no		
3	Scanning probe image processing software	1 no. (Free software)		

Faculty of Technology M.Tech. Nano Science and Technology (R 2021) Semester – I

Course Code: NT4112 Course Title: Nanomaterial Synthesis Laboratory				
SI. No.	Description of Equipment	Required numbers (for batch of 25 students)		
1	Hot air oven	2 no		
2	Magnetic stirrer	6 to 8 nos.		
3	Microwave oven	1 or 2 nos.		
4	High temperature furnace	2 nos.		
5	Autoclave	5 nos.		
6	Spin coater	1 no.		
7	Centrifuge system	3 no.		
8	Weighing Balance	1 no.		
9	Deep freezer	1 no.		
10	Fuming hood	1 no.		

Faculty of Technology

M.Tech. Nano Science and Technology

(R 2021) Semester – II

NT4211 Materials Structural Characterization Laboratory

SI. No.	Description of Equipment	Required numbers (for batch of 25 students)
1	High magnification Optical Microscopy (with computer)	1
2	Scanning Electron Microscope	1
3	Atomic force Microscope	1
4	X-ray Diffraction equipment	1

Faculty of Technology

M.Tech. Nano Science and Technology

(R 2021) Semester – II

NT4212 PHYSICOCHEMICAL CHARACTERIZATION LABORATORY

SI. No.	Description of Equipment	Required numbers (for batch of 25 students
1	Fourier Transform infrared Spectroscopy	1
2	Raman spectroscopy	1
3	Thermogravimetric Analysis equipment	1
4	Differential scanning calorimetry equipment	1
5	Ultra violet - visible light spectroscopy	1
6	Electro chemical equipment	1
7	Multi metre	10