

Faculty of Technology
M.Tech. Biopharmaceutical Technology
(R 2021) Semester – I

Course Code: BO4111 Course Title: Formulation and Quality Control Methods for Pharmaceuticals Laboratory		
Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1	Homogenizer	3
2	Lyophilizer	1
3	Wet granulator	1
4	Tablet punching machine	1
5	Capsule filling machine	2
6	Hot air oven	1
7	Autoclave	1
8	Suppositories mould	6
9	Tablet Disintegration apparatus	2
10	Analytical weighing balance	4
11	Viscometer	6
12	UV – visible spectrometer	1
13	pH meter	6
14	Dissolution apparatus	2
15	Zeta potential analyser	1

Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
16	Sieves of all size	4
17	Microscope	6
18	LAL kit	1
19	Membrane filters and housing	2
20	Centrifuge	2
21	Friability testing apparatus	2
22	Incubator	1
23	Laminar hood	1
24	Colony counter	3
25	Mortar and Pestle	12
26	Hot plate with magnetic stirrer	6

Faculty of Technology
M.Tech. Biopharmaceutical Technology
(R 2021) Semester – II
BO4211 Immunopharmacology Laboratory

Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1	Microscopes	20
2	Purification columns	10
3	Microplate reader	05
4	UV spectrometer	01
5	PAGE apparatus	01
6	Western blot apparatus	01
7	Centrifuge	02
8	Haemocytometer	10
9	Cell counter	02
10	Metabolic analyser	02
11	PCR	01

Faculty of Technology
M.Tech. Biopharmaceutical Technology
(R 2021) Semester – III

BO4311 Modern Methods Of Pharmaceutical Analysis Laboratory

Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1	Digital weighing balance	01
2	Digital pH meter	01
3	UV chamber	01
4	TLC chamber	10
5	UV/Vis spectroscopy	01
6	HPLC	01
7	IR spectroscopy	01

Faculty of Technology

M.Tech. Biopharmaceutical Technology

(R 2021) Semester – III

BO4312 Computational Methods In Pharmaceutics Laboratory

Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1	Small molecule drug discovery	01
2	Molecular simulations of chemical systems	01
3	Molecule design and development	01

Faculty of Technology
M.Tech. Biopharmaceutical Technology
(R 2021) Semester – III
BO4313 Drug Discovery Laboratory

Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1	Soxhlet apparatus	10
2	Rotary flash evaporator	03
3	Hot air oven	05
4	Sonicator	02
5	Mortar and pestle	10
6	TLC chamber	10
7	Fume hood	02
8	Purification columns	20
9	Micro-plate reader	03
10	UV spectrometer	01
11	Centrifuge	02