

Faculty of Technology

M.Tech. Biotechnology

(R 2021) Semester: I

Course Code: BY4111 Course Title: Immunotechnology Laboratory		
Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1	Refrigerator	1
2	Deep Freezer - 20°C	1
3	Centrifuge	2
4	Microplate reader	1
5	ELISA Reader	1
6	ELISA Washer	1
7	SDS PAGE apparatus with power pack	12
8	Western blot apparatus	6
9	Refrigerated centrifuge table top – 15, 50 mL holder	1
10	UV spectrophotometer	1
11	Compound Microscope	5
12	Haemocytometer	12
13	CO2 Incubator	1
14	Laminar Hood	1
15	Inverted Microscope	1

Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
16	Analytical weighing Balance	3
17	pH meter	6
18	Magnetic Stirrer	6
19	Incubator Shaker	1

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(R 2021) Semester: II

BY4211 Preparative And Analytical Techniques In Biotechnology

Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1	UV-visible spectrophotometer	1
2	pH meter	1
3	Analytical Balance	1
4	Fluorimeter	1
5	Hotplate cum Magnetic stirrer	2
6	Hot air oven	1
7	Centrifuge	1
8	Water bath	1
9	SDS-PAGE apparatus	2
10	Agrose Gel Electrophoresis unit	2
11	Autoclave	1
12	Vortex mixer	1

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(R 2021) Semester: III

BY4311 Advanced Genetic Engineering Laboratory

Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1	Microscopes	5
2	PCR	2
3	FPLC	1
4	Microplate reader	2
5	UV spectrometer	2
6	PAGE apparatus,	5
7	Western blot apparatus (dry/semi-dry/wet),	2+2
8	Southern blot apparatus,	2
9	centrifuge,	2
10	Hemocytometer,	5
11	Electroporator	2
12	Microplate Reader	2
13	Deep freezer - 20	1
14	Deep freezer - 80	1
	CHEMICALS : required stains, chemicals, enzymes & consumables	

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(R 2021) Semester: III

BY4312 Bioprocess And Downstream Processing Laboratory

Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1	Centrifuge,	1
2	FPLC	1
3	Ultrasonicator	1
4	Homogeniser	1
5	Microfiltration Unit	1
6	Hot air oven, Incubator	1+1
7	Laminar air flow chamber	1
8	HPLC,	1
9	Autoclave	1
10	Incubator Shaker	1
11	UV Spectrophotometer	2
12	Water Bath	2
13	Fermentor	1
	CHEMICALS All required chemicals & stains.	