

Faculty of Technology
B. Tech. Biotechnology
(R 2017) Semester – II
BT8261 BIOCHEMISTRY LABORATORY
Requirements for a batch of 30 students

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Autoclave	1		
2.	Hot Air Oven	1		
3.	Incubators	2		
4.	Light Microscopes	4		
5.	Incubator Shaker	1		
6.	Colorimeter	2		
7.	Laminar Flow Chamber	2		
8.	Test tubes	200		
9.	Beakers – 50 ml, 100 ml, 250 ml one each per student	20		
10.	Beakers - 500 ml and 1000 ml atleast 5 per batch of 20 students	5		
11.	Watch glasses	20		
12.	Petridishes as required, glass cuvettes as needed	20		
13.	Burette	20		
14.	Glass pipette – one each in 0.5 ml, 1 ml, 5 ml and 10 ml with suitable pipette aid	20		
15.	TLC plate	20		

Faculty of Technology
B. Tech. Biotechnology
(R 2017) Semester – III
BT8361 MICROBIOLOGY LABORATORY
Requirements for a batch of 30 students

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Autoclave	1		
2.	Hot Air Oven	1		
3.	Incubators	2		
4.	Light Microscopes	4		
5.	Incubator Shaker	1		
6.	Colorimeter	2		
7.	Laminar Flow Chamber	2		
8.	Petridish, Test tubes, Microscopic slides, Inoculation loop, Gas burner	30		

Faculty of Technology
B. Tech. Biotechnology
(R 2017) Semester – III
BT8311 CELL BIOLOGY LABORATORY
Requirements for a batch of 30 students

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Autoclave	1		
2.	Hot Air Oven	1		
3.	Incubators	2		
4.	Light Microscopes	4		
5.	Incubator Shaker	1		
6.	Colorimeter	2		
7.	Laminar Flow Chamber	2		

Faculty of Technology
B. Tech. Biotechnology
(R 2017) Semester – IV
BT8411 CHEMICAL ENGINEERING LABORATORY FOR BIOTECHNOLOGISTS
Requirements for a batch of 30 students

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Colorimeter	2		
2.	Filter leaf	1		
3.	Orifice meter	1		
4.	Venturimeter	1		
5.	Rotameter	1		

Faculty of Technology
B. Tech. Biotechnology
(R 2017) Semester – IV
BT8412 MOLECULAR BIOLOGY LABORATORY
Requirements for a batch of 30 students

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Electrophoresis Kit	1		
2.	PCR	1		
3.	Incubators	2		
4.	Light Microscopes	4		
5.	Incubator Shaker	1		
6.	Spectrophotometer	2		
7.	Laminar Flow Chamber	2		

Faculty of Technology
B. Tech. Biotechnology
(R 2017) Semester – V
BT8511 BIOPROCESS LABORATORY I
Requirements for a batch of 30 students

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Autoclave	1		
2.	Hot Air Oven	1		
3.	Incubators	2		
4.	Light Microscopes	4		
5.	Incubator Shaker	1		
6.	Colorimeter	2		
7.	Laminar Flow Chamber	2		

Faculty of Technology
B. Tech. Biotechnology
(R 2017) Semester – V
BT8512 ANALYTICAL METHODS AND INSTRUMENTATION LABORATORY
Requirements for a batch of 30 students

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Colorimeter	2		

Faculty of Technology
B. Tech. Biotechnology
(R 2017) Semester – VI
BT8611 BIOPROCESS LABORATORY II
Requirements for a batch of 30 students

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Electrophoresis Kit	1		
2.	Reactors	6		
3.	Incubators	2		
4.	Light Microscopes	1		
5.	Incubator Shaker	1		
6.	Spectrophotometer	2		
7.	Laminar Flow Chamber	1		

Faculty of Technology
B. Tech. Biotechnology
(R 2017) Semester – VI
BT8612 GENETIC ENGINEERING LABORATORY
Requirements for a batch of 30 students

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Electrophoresis Kit	1		
2.	PCR	1		
3.	Incubators	2		
4.	Light Microscopes	4		
5.	Incubator Shaker	1		
6.	Spectrophotometer	2		
7.	Laminar Flow Chamber	2		

Faculty of Technology
B. Tech. Biotechnology
(R 2017) Semester – VII
BT8711 DOWNSTREAM PROCESSING LABORATORY
Requirements for a batch of 30 students

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Centrifuge	1		
2.	Cross flow filtration set up	2		
3.	FPLC	1		
4.	Sonicator or French press or Dynomill	1		

Faculty of Technology
B. Tech. Biotechnology
(R 2017) Semester – VII
BT8712 IMMUNOLOGY LABORATORY
Requirements for a batch of 30 students

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	ELISA reader	1		
2.	Microscopes	8		
3.	Microwave oven	1		
4.	Hot plate	4		
5.	Vortex mixer	4		
6.	Table top refrigerated Centrifuge	1		
7.	Fluorescent microscope	1		