

Faculty of Civil Engineering
M. E. Environmental Engineering
Regulations 2021 Semester: I

Course Code: EV4111 Course Title: ENVIRONMENTAL CHEMISTRY LABORATORY		
Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1.	pH Meter	2
2.	Burette (50 mL)	20+5
3.	Burette (25 mL)	5+2
4.	Pipette 1 mL	10+2
5.	Pipette 2 mL	10+2
6.	Pipette 10 mL	10+2
7.	Measuring Cylinder 10 mL	5+2
8.	Measuring Cylinder 25 mL	5+2
9.	Measuring Cylinder 50 mL	5+2
10.	Measuring Cylinder 100 mL	5+2
11.	Measuring Cylinder 500 mL	2+1
12.	Measuring Cylinder 1000 mL	2+1
13.	Volumetric Flask 100 mL	5+2
14.	Volumetric Flask 250 mL	5+2
15.	Volumetric Flask 500 mL	5+2
16.	Volumetric Flask 1000 mL	5+2
17.	Conductivity Meter	1
18.	Spectrophotometer (uv-vis)	1
19.	Nephelometer	1
20.	TKN Analyser	1

21.	TKN Digestion Unit (6 heating unit)	2
22.	COD Digestion Unit Setup (6 heating mantle)	2
23.	Atomic Absorption spectrophotometer (AAS)	1
24.	Flame photometer	1
25.	Weighing balance (0.0001g)	1
26.	Weighing balance (0.01g)	1
27.	Refrigerator	1
28.	Water bath	1
29.	Heavy Metal Analyser	1

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Course Code: EV4112 Course Title: ENVIRONMENTAL MICROBIOLOGY LABORATORY		
Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1.	Conical Flasks (500 mL)	4+2
2.	Autoclave (20 L) 121oC temperature Pressure : 15 lbs	1
3.	Test tubes (20 mL)	120+30
4.	Petri plates	120+30
5.	Incubator (Bacteriological)	1
6.	Hot air oven	1
7.	Laminar Air Flow Chamber	1
8.	Measuring Cylinder 25 mL	5+2
9.	Measuring Cylinder 50 mL	5+2
10.	Measuring Cylinder 500 mL	2+1
11.	Measuring Cylinder 1000 mL	1+1
12.	Colony counter	1
13.	Electronic Balance (0.0001g)	1
14.	Electronic Balance (0.001g)	1
15.	Table Shaker	1
16.	Spectrophotometer (uv-vis)	1
17.	BOD Incubator	1
18.	Bioreactor Batch type (for cultivation of microorganisms)	1
19.	Test Tubes (20mL)	120+30
20.	Conical Flask (250 mL)	50+10

21.	Beaker (250mL, 500mL, 1000mL) each	5+2
22.	Micro Pipette (250 µL, 500 µL, 1000 µL) Each	1+1
23.	Pipette Tips	4+2
24.	Water bath	1
25.	Membrane Filtration setup with vacuum pump	1
26.	Deep Freezer	1
27.	Refrigerator	1
28.	Centrifuge	1
29.	Compound Microscope	1