

Department of Chemical Engineering: MVGRCOE(A) Vizianagaram
Mass Transfer Operations Laboratory

S.No.	Name of the Equipment	Qty
1	Wetted wall Column	1
2	Tray Drier	1
3	Open pan Evaporator	1
4	Solid dissolution apparatus	1
5	Simple distillation set-up	1
6	Leaching set-up	1
7	Extraction set-up	1
8	Adsorption set-up	1
9	Packed column Distillation	1
10	VLE Apparatus	1
11	Extraction column (Spray)	1
12	Extraction Column (Packed bed)	1
13	Absorption Column (Sieve tray)	1
14	Absorption Column (Packed bed)	1
15	Fractional Rectification Column (Sieve tray)	1
16	Adsorption & Regeneration Column (Fixed bed)	1
17	Evaporator (Falling film)	1
18	Fluidized bed (Mass & Heat Transfer)	1

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Mechanical Unit Operations Laboratory

S.No.	Name of the Equipment	Qty
1	Jaw Crusher	1
2	Roll Crusher	1
3	Ball Mill	1
4	Hammer Mill	1
5	Attrition Mill	1
6	Cyclone Separator	1
7	Cone Classifier	1
8	Plate and Frame Filter Press	1
9	Rotary Drum Filter	1
10	Agitated Batch Crystallizer	1
11	Air Elutriator	1
12	ICI Sedimentation	1
13	Air Permeability	1
14	Froth Floatation Cell	1
15	Rotap Sieve Shaker	1
16	Test Sieves	1
17	2HP Air Compressor	1

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Chemical Reaction Engineering Laboratory

S.No.	Name of the Equipment	Qty
1	Normal Batch Reactor	1
2	Isothermal Batch Reactor	1
3	Normal Continuous Stirred Tank Reactor	1
4	Isothermal Continuous Stirred Tank Reactor	1
5	Straight Tube Plug Flow Reactor	1
6	Coil Type Tubular Reactor	1
7	Isothermal Plug Flow Reactor	1
8	Packed Bed Reactor	1
9	Adiabatic Reactor	1
10	Combined Reactor	1
12	Solid Dissolution Apparatus	1
13	Cascade Continuous Stirred Tank Reactor	1
14	UV Visible Spectrophotometer	1
15	High Performance Liquid Chromatography Equipment (HPLC)	1
16	Atomic Absorption Spectrometer	1
17	Deionized Water Unit	1
19	Weighing Balance	1

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Process Dynamics and Control Laboratory

S.No.	Name of the Equipment	Qty
1	Temperature Control Trainer	1
2	Pressure Control Trainer	1
3	Control valve Characteristics	1
4	Level control trainer	1
5	Interacting & Non-interacting system	1
6	Temperature Process Analyser	1
7	Cascade control trainer	1
8	Programmable Logic Controller	1
9	Bottle Filling Trainer	1
10	U – Tube manometer	1
11	Compressor	1