



JANSONS INSTITUTE OF TECHNOLOGY

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Karumathampatti, Coimbatore – 641 659

DEPARTMENT OF CIVIL ENGINEERING

BE3252 - BASIC ELECTRICAL, ELECTRONICS AND INSTRUMENTATION

ENGINEERING LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
1.	DC Shunt Motor	Sem II
2.	DC Shunt motor coupled with Shunt Generator	Sem II
3.	Single phase Transformer	Sem II
4.	Three Phase Induction Motor and single-phase Induction Motor	Sem II
5.	Three phase variable load	Sem II
6.	Rheostat	Sem II
7.	LVDT Kit	Sem II
8.	PN Diode, Zener Diode, BJT	Sem II
9.	SCR Characteristics kit	Sem II
10.	Regulated Power Supply	Sem II
11.	Tachometer	Sem II
12.	Cathode Ray Oscilloscope	Sem II
13.	Ammeter, Voltmeter, Wattmeter, Multimeter	Sem II

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DEPARTMENT OF CIVIL ENGINEERING

CE3361 - SURVEYING AND LEVELLING LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
1.	Total Station	Sem III, V
2.	Theodolite	Sem III, V
3.	Dumpy level	Sem III
4.	Tilting level	Sem III
5.	Pocket stereoscope	Sem III
6.	Ranging rods	Sem III, V
7.	Levelling staff	Sem III, V
8.	Cross staff	Sem III, V
9.	Chains	Sem III
10.	Tapes	Sem III
11.	Steel Arrows	Sem III, V
12.	Prismatic Compass	Sem III
13.	Surveyor Compass	Sem III
14.	Survey grade or Hand-held GPS	Sem III, V
15.	Plane Table	Sem III
16.	Wooden Pegs	Sem III

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DEPARTMENT OF CIVIL ENGINEERING

CE3311 - WATER AND WASTE WATER ANALYSIS LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
1.	Electrical Conductivity meter	Sem III
2.	Turbidity meter	Sem III
3.	Spectrophotometer	Sem III
4.	Flocculator	Sem III
5.	Hot air oven	Sem III
6.	Muffle furnace	Sem III
7.	Desiccator	Sem III
8.	Imhoff cone	Sem III
9.	Hot air Oven	Sem III
10.	BOD Incubator Electrical	Sem III
11.	Kjeldhal Nitrogen Analyser	Sem III
12.	Laminar flue hood	Sem III
13.	Sample container	Sem III
14.	Filtration Equipment	Sem III
15.	Glues & Eye protection glass	Sem III

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16.	Cuvette	Sem III
17.	Beakers	Sem III
18.	Pipette & bulb (2ml), (5ml)	Sem III
19.	Volumetric Measuring cylinder	Sem III
20.	Measuring cylinders 100ml, 50ml	Sem III
21.	Burette	Sem III
22.	Volumetric Flask (1000ml)	Sem III
23.	Volumetric Flask (25ml/50ml)	Sem III
24.	Conical Flask (250ml)	Sem III
25.	Porcelain weighing dishes	Sem III
26.	Evaporation dishes	Sem III
27.	Whatman filter paper No.42	Sem III
28.	Funnel (glass)	Sem III
29.	BOD bottle (300ml)	Sem III
30.	Reflexing Apparatus	Sem III
31.	Test tubes (5ml,10ml)	Sem III
32.	Micro Pipettes	Sem III

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CE3411 - HYDRAULIC ENGINEERING LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
14.	Rotameter	Sem IV
15.	Orifice meter/mouthpiece, Venturimeter and Notches	Sem IV
16.	Bernoulli's Experiment	Sem IV
17.	Friction factor in pipes.	Sem IV
18.	Minor losses	Sem IV
19.	Centrifugal pumps	Sem IV
20.	Gear pump	Sem IV
21.	Submersible pump	Sem IV
22.	Reciprocating pump	Sem IV
23.	Pelton wheel turbine	Sem IV
24.	Francis turbine	Sem IV
25.	Metacentric height of floating bodies	Sem IV

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DEPARTMENT OF CIVIL ENGINEERING

CE3413 - SOIL MECHANICS LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
1.	Sieves	Sem IV
2.	Hydrometer	Sem IV
3.	Liquid and Plastic limit apparatus	Sem IV
4.	Shrinkage limit apparatus	Sem IV
5.	Thermometer	Sem IV
6.	Sand replacement method accessories and Core cutter method accessories	Sem IV
7.	Proctor Compaction apparatus	Sem IV
8.	Relative Density apparatus	Sem IV
9.	Permeability determination a. Constant head method b. Falling head method	Sem IV
10.	Three Gang Consolidation test device	Sem IV
11.	Direct Shear apparatus	Sem IV
12.	UTM of a minimum of 20 kN capacity	Sem IV
13.	Vane Shear apparatus	Sem IV
14.	Triaxial shear apparatus	Sem IV
15.	California bearing ratio test apparatus	Sem IV
16.	Weighing machine 20 kg, 1kg apparatus.	Sem IV

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CE3412 - MATERIALS TESTING LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
1.	Beam Mould-15 X 15 X 70 cm- Cast Iron	Sem IV
2.	Compaction Factor Apparatus	Sem IV
3.	Cylindrical Mould-150 mm DIA X 300 mm	Sem IV
4.	Bulk Density Cylindrical Metal Measure-3 Ltr.	Sem IV
5.	Coarse Sieves - 45 cm DIA-G.I.-12.5mm	Sem IV
6.	Coarse Sieves - 45 cm DIA-G.I.-10 mm	Sem IV
7.	Coarse Sieves - 45 cm DIA-G.I.-2.36 mm	Sem IV
8.	Coarse Sieves - 45 CM DIA-G.I.-40 mm	Sem IV
9.	Coarse Sieves - 45 CM DIA-G.I.-31.50mm	Sem IV
10.	Coarse Sieves - 45 CM DIA-G.I.-25 mm	Sem IV
11.	Coarse Sieves - 45 CM DIA-G.I.-20 mm	Sem IV
12.	Coarse Sieves - 45 CM DIA-G.I.-16 mm	Sem IV
13.	Coarse Sieves - 45 CM DIA-G.I.-6.3mm	Sem IV
14.	Length Gauge (Elongation Gauge)	Sem IV
15.	Masonry Trowel Medium - 6"	Sem IV

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16.	G.I.Tray	Sem IV
17.	Pycnometer Bottle	Sem IV
18.	Evaporating Basin - Porcelain Dish – 150mm Dia	Sem IV
19.	Fine Sieve -20 Cm Dia-Brass-4.75 mm	Sem IV
20.	Fine Sieve -20 Cm Dia-Brass-2.36 mm	Sem IV
21.	Fine Sieve -20 Cm Dia-Brass-1.18 mm	Sem IV
22.	Fine Sieve -20 Cm Dia-Brass-0.6 mm	Sem IV
23.	Fine Sieve -20 Cm Dia-Brass-0.3 mm	Sem IV
24.	Fine Sieve -20 Cm Dia-Brass-0.15 mm	Sem IV
25.	Fine Sieve -20 Cm Dia-Brass-0.075 mm	Sem IV
26.	Slump Test Apparatus with tamping rod	Sem IV
27.	Flexural Strength Testing Machine Analog – Motorized	Sem IV
28.	Coating Thickness Gauge	Sem IV
29.	Electronic Weighing Balance -50 kg-1 gm	Sem IV
30.	High Precision Table Top Balance 20kg, 3kg	Sem IV
31.	Compression Testing Machine-2000 KN	Sem IV

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CE3511 - HIGHWAY ENGINEERING LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
1.	Pycnometer	Sem V
2.	Weighing Machine	Sem V
3.	Los Angeles Abrasion Testing Machine	Sem V
4.	IS Sieve	Sem V
5.	Hot Air Oven	Sem V
6.	Penetrometer	Sem V
7.	Orifice Viscometer, Stirrer	Sem V
8.	Thermometer	Sem V
9.	Ring and Ball Apparatus, Steel Balls	Sem V
10.	Briquette Mould	Sem V
11.	Ductility Machine	Sem V
12.	Oven with Rotating Shelf	Sem V
13.	Marshall Stability Test Machine,	Sem V
14.	Mould Assembly, Sample Extractor	Sem V
15.	Compaction Pedestal and Hammer, Breaking Head	Sem V
16.	Centrifuge Extractor	Sem V

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DEPARTMENT OF CIVIL ENGINEERING

CE3611 - BUILDING DRAWING AND DETAILING LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
1.	AUTOCAD	Sem VI
2.	Revit	Sem VI

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