

GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING (Autonomous)

Madhurawada, Visakhapatnam

LIST OF EQUIPMENTS IN LABORATORIES**DEPARTMENT OF CHEMICAL ENGINEERING**

S.No.	Name of the Equipment	Quantity
MECHANICAL OPERATIONS LABORATORY		
1	BALL MILL.	1
2	TEST SEIVES	60
3	RIFLE SAMPLER	1
4	ROLL CRUSHER.	1
5	VACUUM TRAY DRIER.	1
6	VERSATILE FLOTATION CELL.	1
7	TROMMEL SCREEN	1
8	JAW CRUSHER	1
9	MINI IMPACTOR.	1
10	SIEVE SHAKAR ROTAP WITH TIMER CONTROL	2
MASS TRANSFER LABORATORY		
1	TRAY DRYIER	1
2	STEAM DISTILLATION SET-UP	1
3	PACKED BED DISTILLATION SET-UP	1
4	DIFFERENTIAL DISTILLATION SET-UP	1
5	VAPOR-LIQUID EQUILIBRIA SET-UP	1
6	PERISTALTIC PUMP	1
7	ROTARY SHAKER	1
8	ABBE REFRACTOMETER	1
9	VAPOUR IN AIR DIFFUSION APPARATUS	1
10	FORCED DRAFT TRAY DRYER	1
11	HEATING MANTLES	4
CHEMICAL REACTION ENGINEERING LABORATORY		
1	CONTINUOUS STIRRED TANK REACTOR IN SERIES	1
2	COMBINED REACTOR IN SERIES	1
3	CONTINUOUS STIRRED TANK REACTOR	1
4	PLUG FLOW REACTOR	1
5	ISOTHERMAL BATCH REACTOR	1
6	ABSORBSATION COLUMN WITH CONTROL SYSTEM (AICTE-MODROBS)	1
7	CSTR WITH CONTROL SYSTEM (AICTE-MODROBS)	1
INSTRUMENTATION AND PROCESS CONTROL LABORATORY		
1	TEMPERATURE CONTROL TRAINER.	1
2	PRESSURE CONTROL TRAINER.	1
3	LEVEL CONTROL TRAINER.	1
4	TWO TANK INTERACTING SYSTEM	1
5	CONTROL VALUE CHARACTERISTICS WITH VALUE POSITION	1
6	CASCADE CONTROL TRAINER	1
7	INTERACTING AND NON-INTERACTING SYSTEM	1
8	FIRST ORDER AND SECOND ORDER SYSTEM	1
9	BINARY DISTILLATION UNIT CONTROL SYSTEM (AICTE-MODROBS)	1
10	MULTI PROCESS CONTROL TRAINER (AICTE-MODROBS)	1
COMPUTER AIDED LABORATORY		
1	LENOVO I3 Computers (I-3 3.9 ghz, 1 TB HDD, 8gb RAM, 20" LCD)	40
2	LAN SWITCH 24 PORT DLINK	2
3	LAN SWITCH 16 PORT DAX	2
4	LCD PROJECTOR (Benq, DLP projector, 3000 & 3300lm)	2
5	STUDIO MASTER W/L MIC	1
6	PA SYSTEM (Ahuja 80W, 4 satellite speakers)	1
7	REAL TIME DCS SIMULATOR SOFTWARE FROM TSPL	1
8	COMSOL MULTIPHYSICS CFD SOFTWARE	1
9	PRO-II PROCESS SIMULATION SOFTWARE FROM AVEVA	1

ADVANCED CHEMICAL ENGINEERING RESEARCH		
1	AUTO CLAVE	1
2	LAMINAR FLOW APPARATUS	1
3	TRINOCULAR MICROSCOPE WITH CCTV	1
4	TRINOCULAR MICROSCOPE	1
5	DIGITAL CAMERA FOR MICROSCOPE	1
6	ORBITAL SHAKING INCUBATOR	1
7	BACTERIOLOGICAL INCUBATOR	1
8	CONSTANT WATER BATH	1
9	DIGITAL pH METER WITH COMBINED ELECTRODE	1
10	14" COLOUR TV	1
11	SERVO CONTROLLED VOLTAGE STABILIZER	1
12	CENTRIFUGE	1
13	PHOTO CATALYTIC REACTOR	1
14	GAS CHROMATOGRAPHY SHIMADZU	1
15	LYNX DIGITAL COLONY COUNTER	1
16	CENTRIFUGE (REMI)	1
17	PARR REACTOR (AICTE-RPS)	1
18	RING & BALL APPARATUS (AICTE-RPS)	1
19	CONRADSON & MUFFLE FURNACE WITH CRUCIBLES (AICTE-RPS)	1
20	SHIMADZU DIGITAL BALANCE (AICTE-RPS)	1
21	DEAN & STORK APPARATUS (AICTE-RPS)	1
22	VACUUM PUMP MOISTURE TRAP (AICTE-RPS)	1
23	HIGH PRESSURE REACTOR (AICTE-RPS)	1
24	BROOKFIELD VISCOMETER (AICTE-RPS)	1
WATER QUALITY ANALYSIS LAB		
1	DIGITAL FLAME PHOTOMETER	1
2	DIGITAL DO METER	1
3	DIGITAL TURBIDITY METER	1
4	BOD REACTOR (AICTE-MODROBS)	1
5	ATOMIC ABSORPTION SPECTROMETER (AICTE-MODROBS)	1
6	DIGITAL TDS, PH, EC METER (JENGU WATERS LTD)	1
7	DIGITAL COLORIMETER (JENGU WATERS LTD)	1
DEPARTMENT OF CIVIL ENGINEERING		
S.No.	Name of the Equipment	Quantity
FLUID MECHANICS & HYDRAULIC MACHINES		
1	Orificemeter & Venturimeter	1
2	Pipe Friction	1
3	Impact of Jet Apparatus	1
4	Bernoulli's Apparatus	1
5	Orifice Apparatus	1
6	Mouthpiece Apparatus	1
7	Notch Apparatus	1
8	Losses in pipes Apparatus	1
9	Reynold's Apparatus	1
10	Pitot Static Tube	1
11	Flow Fluidised Bed	1
12	Pelton Wheel Turbine	1
13	Centrifugal Pump	1
14	Jet Pump Test Rig	1
15	Francis Turbine	1
16	Moulded Chair (Plastic) without hands	15
17	Steel Almarah 61/2 inches	1
18	Energy Meter - 3 Phase	1
19	Monkey Pliers	1
20	Energy Meter - Single Phase	3
21	Stop Clocks (ESAL)	6
22	Texmo- Tara 0.5 H.P. Mono	2
23	Stainless Steel Tank	1
24	Reciprocating Pump Test Rig	1
25	E88 Pilot Spray Gun	1
26	1 HP Variable frequency drive	1
27	Supply of SS tanks and Accessories	2
28	1.5HP monoblock Pump set	1

29	1 Kg Kitchen balance	1
30	SS 304 Grade Tanks	1
31	Titling Frame / Adjustable Channel	1
32	Danfoss Micro Drive 0.75 KW	1
33	1kg weighing machine	1
34	10 kg weighing machine	1
35	stop watches	10
36	Orifice Meter	1
37	Roctometer	1
SURVEYING LABORATORY		
1	Pentax Auto Level	1
2	Survey Chains 150 Links 30m	15
3	Arrows	60
4	Ranging Rods 2m Length	58
5	Ranging Rods 3m Length	29
6	Measuring Tape 15m	12
7	Measuring Tape 30m	20
8	Levelling Staff Aluminum 4 m	9
9	Clinometer Compass	1
10	Planimeter	1
11	Pentagraph	1
12	Ghat Tracer	1
13	Abney Level	1
14	Substense Bar with Stand	1
15	Optical Square	1
16	Prism Square	1
17	Line Ranger	1
18	French Curve Set (24 Pieces)	1
19	Hand Lelvel	1
20	Surveyor Compass with wooden stand	1
21	Octagonal cross Staff	1
22	Clinometer (Tangent)	1
23	Pocket Compass	1
24	Leveling Staff Wooden 4m	8
25	Prismatic Compass (Teak Wooden Stand)	4
26	Cross Staff (brass) Open Type	4
27	Offset Rods 3 m Length	5
28	Plane Tables with Wooden stands	9
29	Trough Compass	2
30	Box Sextant	1
31	Theodolites LYNX Vernier in Wooden Box	4
32	Plane Tables with Accessories	4
33	Lynx Dumpy level M .DL -9	2
34	Plane Tables (22mm) Fullset	2
35	GPS 12 Garmin Make (with data cable)	1
36	LYNX Dumpy level with Aluminium stands	2
37	LYNX Plane Table 2mm thick	2
38	PENTAX Total Station Model R-326 Ex	1
39	GPS Receivers Juno ST along with accessories	2
40	Pentax Total Station Model R-325 EX	1
41	Sokkia Auto Levelling Instrument	4
42	Plumbobs	10
43	Sokkia Electronic Total Station	1
44	10mm prisamatic Compass	20
45	Cross Staff with Aluminium	20
46	Dumpy Level	10
47	Standard Vernier Thedolite	10
48	Sokkia Automatic Levelling Instruments	2
49	Aluminium Levelling Staff (5m)	10
50	Aluminium Telescopic Tripod	20

STRENGTH OF MATERIALS LABORATORY		
1	Torsion Testing Machine	1
2	Brinell's Hardness	1
3	Impact Testing Machine	1
4	F.I.E.Universal Testing Machine	1
5	Mitutoyi dial Guage Indicator	3
6	Mitutoyi dial Guage Indicator	2
7	Frabricated Iron Frame for testing Springs in Tension	1
8	Retort Stands	2
9	Extensometer (EM-1)	1
10	Compression Testing Machine	1
11	Concrete Cube Moulds	6
12	Vernier Caliper	4
13	Pan Balance 2 kg (Thomson)	1
14	Cube Moulds (Cast Iron)	6
15	Cylindrical Mould (Cast Iron)	3
16	Rockwell cum Brinell's Hardness	1
17	Cube Moulds Cast Iron 150mm	4
18	Dial Guage 10465 Mitutoyi	2
CONCRETE TECHNOLOGY LABORATORY		
1	Water bath serological	1
2	Sieve Shaker (Motorised)	1
3	Vicat Needle apparatus with Dashpot	4
4	Le-Chatelier Mould	6
5	Vibrating Machine	1
6	Vee bee consistometer	1
7	Compaction factor apparatus	1
8	Concrete Mixer	1
9	Needle Vibrator	1
10	Vibrating Table	1
11	Cube Moulds 50mm C.I.	6
12	Beam moulds	3
13	Fine Sieves 90 microns	2
14	Blaine's air permeability Apparatus	1
15	Specific gravity bottle	3
16	Slump Test Apparatus	3
17	Flow table for cement concrete motor	1
18	450mm dia (18") coarse Test Sieves in 90,80,75,62,53,50,45,40,37.5,31.5,26.5,25,22.4,20,19,16,13.5,12.5,11.2,10,9.5,8,6.7,5.6,6.3,4.75 (52 Nos)	2
19	20mm dia (8") fine test sieves in 5.6, 4.75,	2
20	NSR 300 kg Capacity PPF Scale	1
21	Demountable Mechanical Strain Gauge	1
22	Concrete Permeability Apparatus	1
23	2.0 Ton Veebra Window AC	1
24	5 Kg capacity Stabilizer	1
25	Fabrication of Wing Tanks	1
26	Cube Moulds 70.7mm	11
27	Cylindrical Mould	3
28	Density Basket	1
29	Rapid Moisture Meter	1
30	Wet & Dry build thermometer	1
31	Cube Moulds 150mm	6
32	Cube Moulds 70.7mm	7
33	KPT Hand Blower	1
34	Kangon Mixer	1
35	Cube Models 150x150x150mm	5
36	Cube Moulds 150mm	4
37	Cube Moulds 100mm	24
38	Electronic Balance 500gms	1
39	Electronic Balance 15 kg acc:1mg	1
40	Proving Ring 100 T	1
41	Cylindrical Metal Measure	1
42	Density Basket	1
43	Cube Moulds, Cast Iron Heavy weight	12

44	Standard Manual 250 Rebound hammer	1
45	Longitudial Compressometer	1
46	Slump Test Apparatus	1
ENVIRONMENTAL ENGINEERING LABORATORY		
1	Digital Nephelometer CL -52D	1
2	PH Meter Digital with Electrodes CL 51 B And AccessoriesLI -120	1
3	Flame Photometer (HP BASED)	1
4	COD Digiter	1
5	MPN Kit	1
6	Chilorine Kit	1
7	BOD Incubator	1
8	LYNX Hot Air Oven (Stainless Steel)	1
9	Digital Balance 150cm capacity with	1
10	Muffle Furnace PFW 1200	1
11	Water Bath PFW 203 CR-Tc waterbath	1
12	JAR Test Apparatus	1
13	Automatic Mechanical 0-60 min GERMAN tinu	1
14	Burrettes with PITe Keys CI-B 50ml	40
15	Pipettes, Measuring CIB 10ml	20
16	Pipettes, Measuring CIB 5.0ml	20
17	Pipettes, Transfer, Volumetric 20ml	40
18	Retord standheavy base 8x5x24	40
19	Burrette clamp single	40
20	Flasks, Graduated Conical N/M 250ml	50
21	Polylab wash bottles, 500ml	16
22	Flasks, Volumetric with IC stopper 1000ml	5
23	Flasks, Volumetric with IC stopper 500ml	5
24	Flasks, Volumetric with IC stopper 250ml	10
25	Flasks, Volumetric with IC stopper 100ml	40
26	Bottles B.O.D. Interchangeble stopper 300ml	30
27	Porecelain crucibles with lid, glazed both sides 5ml without lids, 50ml	11
28	Funnels -Plain 60 deg Angle 75mm	40
29	Cylinders, Graduated, CI-B 100ml	15
30	Measuring Cylinder 1000ml	2
31	Nestler Cylinder stand 6 places 100ml	3
32	Single Pan Balance 100gms Capacity	1
33	E voltage correction V Guard 500 V	2
34	Refregirator 181 pp LG	1
35	Refregirator 24 pp LG	1
36	Digital PH Meter with accessories Make	1
37	Digisum Digital Conductivity	1
38	Digital tubidity Meter with accessories	1
39	Digital Turbidity Meter	1
40	Digital Ph meter	1
ENGINEERING GEOLOGY LABORATORY		
1	Moh's scale of Hardness	12
2	Streak Plates	20
3	Geological Specimens (Mineralogy)	100
4	Geological Specimens (Petrology)	100
5	Model of Normal fault	1
6	Model of Reserve fault	1
7	Model of Ridege & Trough Fault	1
8	Model of Step Fault	1
9	Model of True & Apparent Dip	1
10	Model of Dip, Strike & Escarp	1
11	Model of Earth exposing layers	1
12	Model of Pitching Antrochime	1
13	Isoluial, Anticlimne & Syneleme	1
14	Basis fold	1
15	Symmetrical Syncline	1
16	Tunnel in Inchimed Bed	1
17	Across an Anticlume	1

18	Across a Synclume	1
19	Inclined beds	1
20	Horizontal beds	1
21	Vertical beds	1
22	Stands for tunnel models	6
23	Effects of topography	1
24	Asymmetrical Anticline	1
25	Mineral Specimens	12
26	Rock Specimens	6
27	Lustre Collection Set 10 Minerals	1 set
28	Cleavage Collection	1 set
29	Fracture Collection	1 set
30	Streak Collection	1 set
31	Transparency double refractor	1 set
32	Form & Structure Collection	1 set
GEOTECHNICAL ENGINEERING LABORATORY		
1	Weighing Machine Electronic Mode DS852J	1
2	10 Kg capacity self Indicating Balance Thomson Make	1
3	20 Kg Capacity Pan balance	1
4	Steel Almarah 61/2 inches	1
5	Keeline Stabilizers (500 VA)	1
6	Liquid Limit Apparatus with counter	1
7	Shrinkage Limit Apparatus (HS 10.30)	1
8	Spatula(HS10.05.7)	1
9	ASTM tool	1
10	Plastic Limit Apparatus (HS 10.31)	1
11	Field Density Kit (HS 14.05)	1
12	Sand Pouring cylinder apparatus,	1
13	Hydrometer	2
14	High Speed Stirrer with Accessories	1
15	Compaction Mould (Light)	1
16	Compaction Rammer (light)	1
17	Compaction Mould (Heavy)	1
18	Compaction Rammer (Heavy)	1
19	Vacuum Pump	1
20	Sieve Brass 200mm dia 4.75, 2.36, 2, 1.18, 1, 600 mic, 425, 300,	1 set
21	Automatic Soil Compaction Machine	1
22	Dibber	1
23	Sieve Shaker Motorized	1
24	Permeability Test Apparatus	1
25	Automatic Soil Compaction Machine	1
26	Unconfined Compression Apparatus	1
27	CBR apparatus (motorised)	1
28	Consolidation Appar.- Three gang	1
29	Direct Shear Apparatus - Motorised	1
30	Vane Shear Apparatus, Hand Operated	1
31	Universal soil Extruder, Hand operated	1
32	Proctor Penetrometer Spring Type	1
33	Split spoon Sampler (HS 34.80)	1
34	Drop Hammer (HS 34.100)	1
35	Guide Assembly (HS 34.105)	1
36	Tripod Stand (HS 34.110)	1
37	SPT Extension Rods	1
38	0.5 m	1
39	1.0 m	1
40	1.5 m	1
41	3.0 m	1
42	Manila Rope	10 m
43	Vernier Calipers 6"	2
44	Protractor (Smart)	1
45	Vacuum Pump	1
46	Wheel Barrow	1
47	Constant Volume Mould 38mm dia	1
48	Spatula	1

49	Sand Pouring Cylinders (small)	1
50	Compaction Mould (Light)	1
51	Compaction Rammer	1
52	Compaction Mould (Heavy)	1
53	Commerical Weight Box (1mg to 100g)	1
54	Electrical Stove	1
55	Soil Cone Penetrometer	1
57	Soil Cone Penetrometer	1
	200mm Dia Brass Sieves	
58	4.75mm	2
59	2.00mm	1
60	1.00mm	1
61	600 microns	2
62	425microns	2
63	300 microns	1
64	150 microns	1
65	125 microns	1
66	106 microns	1
67	90 microns	1
68	75 microns	1
69	63 microns	1
70	53 microns	1
71	45 microns	1
72	37 microns	1
73	25 microns	1
74	Lid & Pan	4
75	450mm Dia GI Sieves 4.75mm	2
76	Lid & Pan	1
	300mm Dia GI Sieves	
77	4.75mm, 9mm, 37.5mm, 10mm, Lid & Pan	5
78	Soil Sampling Kit with all Accessories	1
79	CBR Mould along with base plate	1
80	Stop Clocks	3
81	Load Frame (500 kg) 30 speed	1
82	Triaxial Cell 10.5 kg/cm ² (38mm dia sample)	2
83	Pore Water Pr.App. (0-10kg /cm ²)	1
84	Lateral Pr. Assembly (0-10kg /cm ²)	1
85	Self. Compensating Cont. Pressure Appt.	1
86	Pneumatic Control Panel	1
87	Liquid Limit Apparatus	2
88	Rapid MoistureMeter (0-50%)	1
89	Brass Sieves 200mm dia , 4.75mm, 2mm,	2 sets
90	1mm, 600mic, 425 mic, 300 mic, 150mic	2 sets
91	CBR Mould Base Plate & Surcharge	6
92	Proving Ring 200kg capacity	1
93	Electronic Balance 15 kg caapcity 1g accuracy	1
94	E voltage corrector V Guard 500 VA	1
95	Electronic Weighing Machine DS415, 15 kg 1/15000 ; 400 x 400mm M/c No.641506129897	1
96	Proving Ring 200 kg Capacity PR-0181 controlled size 24" x 24" with SS max temp 250C	1
97	Refregirator 181 lts and Micro Oven 20 Lts	1
98	Liquid Limit Dvive (Motorised)	2
99	Universal Permameter	1
100	Swelling Pressure and Heavy Evaluating Apparatus	1
101	Laboratory Vane Shear Apparatus Motorised	1
102	Sampling Tube (Steel) 30 x 200mm long	20
103	20cm dia brass sieves (4.75mm, 2mm, 1mm 600, 300, 150, 75 pan and ud)	2sets
104	38mm dia porpous stones	10
105	60mm dia porous stones	10
106	Rock Permeability	1
107	Hot Air Oven	1

TRANSPORTATION ENGINEERING LABORATORY		
1	Aggregate Crushing Value Apparatus	1
2	Aggregate Impact Test Apparatus	1
3	Los Angeles Abrasion Testing Machine	1
4	Ductility Test Apparatus	1
5	Standard Bitumen Penetration Meter	1
6	Wire Mesh Bucket	1
7	Ring and Ball Apparatus	1
8	Hot Air Oven	1
9	Electronic Weighing Machine (DS415) 15 Kg	2
10	Electronic Weighing Machine (DS452-3kg)	1
11	Marshall Apparatus 50 kN capacity	1
12	Benkelman Beam	1
13	Bitumen Extractor	1
14	Ring Ball Apparatus	1
15	Pycnometer (each)	3
16	Flashpoint and Fire point	2
17	Universal Penetrometer , Coen etc	1
18	Thickness Guage length gauge ring and ball apparaturs	1
COMPUTER LABORATORY		
1	CAB FADD & Tower CAD	1 set
2	Upgrade of STAAD III Software to STAAD Pro	1
3	REVIT Software	1
4	Archi CAD V 10 Software	1
5	10 KVA UPS System for computer lab	1
6	MIDAS Civil Lite Version	1
7	Academic Select subscription "Campus" Program Annual Program for 50+ Software for Selected tenure (5 years of subscription) for 200 seats are as described above to work on WIN7/WIN8/WIN10 (64 Bit must for STAAD Pro Connect Edition)	200 Licences
8	Computers Intel Core I5	40
9	D-Link switch 24 port	3
10	Canon high speed printer	1
ADVANCED STRUCTURAL ENGINEERING LABORATORY		
1	Vibration Analyser with Accessories	1
2	Uni-accessories Motor	2
3	Impulse Force Hammer	1
4	Low noise Coaxial Cable	2
5	Low noise Coaxial Cable	1
6	PUNDIT LAB+ (Model No- 326 20 001) (UPV)	1
7	PROFOMETER PM600/REBAR LOCATOR TOUCH SCREEN TYPE(MODEL NO. 39210001)	1
8	Rebound Hammer	1
9	Concrete Crack Miscroscope	1
10	Accelerated curing tank, vibration table	1
11	Motor Construct Stratur	1
12	V-Funnel, U Box, J ring	1
13	Fabricated SCC Apparatus - V-Funnel, U Box, J ring	1
14	Fabricated Loading Frame with PLC Unit	1
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING		
S.No.	Name of the Equipment	Quantity
COMPUTER PROGRAMMING LAB		
1	Projector NEC	1
2	LLOYD A.C	4
3	TP Link Switch 16 Port	1
4	D Link Swithces 24 Port	3
5	UPS 40KVA VERTIV	1
6	Lenovo Think Center i3 pro,4GB RAM, 500GB HDD, 18.5" LED	66
ENGINEERING IT WORKSHOP LAB		
1	Lenovo Think Center i3, 8GB RAM, 500GB HDD	15
2	Voltas Window A.C.	3
3	IBM Thinkcenter, A50 Series, 512MB RAM, 80GB HDD	5
4	Delta 11KA UPS, 8 Batteries	1
5	D Link 24 Port Switch	1
6	IBM Thinkcenter, A51 Series, 512MB RAM, 80GB HDD	10

COMPUTING LAB – 1		
1	LCD Projector	1
2	28 Port Giga bit Managed Switch	1
3	DLink 24 Port Switch	1
4	Cisco 24 Port Giga bit Switch	1
5	1.5TON Voltas ACs	4
COMPUTING LAB - 2		
1	IBM Think Center i3 Processor, 4GB RAM, 500GB HDD	18
2	CISCO SG350 28 Port	1
3	CISCO SG95 24 Port	3
4	HP Pro, 330 MT Intel Core-i7 8GB RAM, 500 GB HDD	47
5	Videocon 2 TON A.C.	2
6	Power Cool Split A.C.	2
7	Hitachi CPX3042 LCD Projector	1
8	E-50 MPR Web Cam	50
COMPUTING LAB - 3		
1	Lenovo Think Center i3 Processor, 8GB RAM, 1TB HDD, 19.5" Monitor	36
2	CISCO Switch 24 Port	4
3	D-Link DIR841 WiFi Router	4
4	E-50 MPR Web Cam	30
COMPUTING LAB - 4		
1	Lenovo Think Center, Intel i3, 8 GB RAM, 1TB HDD, 19.5" Monitor	36
2	Cisco Switch 24 Port	2
3	E-50 MPR Web Cam	30
COMPUTING LAB - 5		
1	Lenovo Think Center i3, 8GB RAM, 1TB HDD, 19.5" Monitor	40
2	L.G. Split A.C.	2
3	Wall Mounted LCD Projector	1
4	Cisco Switch 24 Port	3
5	E-50 MPR Web Cam	25
PG & RESEARCH LAB		
1	Intel Core-i7, 16 GB RAM, 1TB HDD, 19.5" Monitor	40
2	GPU (intel core i7 8700K Processor, NVIDIA Titan XP Graphic Card)	1
3	NAS Cloud 24TB	1
4	Wall Mounted LCD Projector	1
5	6KVA UPS	1
M.TECH. PROJECT CENTER		
1	4 Antenna WiFi Router	1
2	20 Nodes LAN Connectivity	1
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING		
S.No.	Name of the Equipment	Quantity
MIC LAB		
1	TMS320C6713 DSP kits	6
2	89C51ED2 kits	5
3	89C51Ac3 kits	5
4	MSP430 kits	10
5	P-Spice Simulator	5 USER
6	orcad Software	2 USER
7	ups 7.5 kva	1
8	batteries	16
9	Eprom MIC programmer kit	1
10	MIC KITS	15
11	Raspberry mother boards	10
12	pci parallel quards	20
13	LCD Projector	1
14	D-LINK 24 PORT SWITCH	1
15	LENOVO THINK CENTERS	16
16	cisco switch 24 port	1
17	ARM 7 kits	10
18	8051 Kits	16
19	ARM processor kits	15
20	PIC kits	5
21	IC D3 Dumpers	1
22	INTEL ATOM processors	15
23	aSSEMBLED SYSTEMS	2
VLSI/DSP LAB		
1	Webcams	15
2	TMS320C6713 DSP kits	6
3	Xylinks Software	1
4	SDSP KIT	1
5	CC STUDIO DSP KITS	10

6	20 kva ups WITH BATTERIES	1
7	Batteries	26
8	8.75 ton AC DUCT UNITS	25
9	FOXIN MICESES	10
10	AHUJA AUDIO SYSTEM	1
11	SPATRAN3 kits	1

12	ANSYS SOFTWARE	25 USER
13	CADENCE SOFTWARE	20
14	LCD Projector	1
15	D-LINK 24 PORT SWITCH	1
16	LENOVO THINK CENTERS	63
17	cisco switch 24 port	1
18	MATLAB CT controll system tool box 9.9	150 USER
19	MATLAB MATLAB PS SIM power systems 5.8	150 USER
20	MATLAB Ss SIM cap 3.13	150 USER
21	MATLAB RF tool box 2.16	150 USER
22	MATLAB DSP system tool box 2.0	150 USER
23	D-LINK 24 PORT SWITCHS	3
24	aSSEMBLED SYSTEMS	4
25	CISCO SWITCH 24 port	1
26	Amplifier ,speaker	1
ANALOG & DIGITAL COMMUNICATION LAB		
1	100 MHz Digital Oscilloscope TDS2Cm Common Module (AAE/22)	1
2	5 KVA Voltage Stabilizer	1
3	probs10:1	3
4	Analog Time Divison Multiplexing demultiplexing kits	2
5	Spectrum Analyzer 100-6GHz (Agilent Tech)	1
6	Digital storage oscillsopes(FALCON)	4
7	Signal generators 2Mhz(APLAB)	6
8	AGC Charecterstics	2
9	Digital Frequency synthesizer	2
10	Squlech trainer	2
11	DSB Modulater & Demodulater	2
12	Phase Locked Loop FT – 1281	2
13	Frequency Modulation & Demodulation Trainer FT 1502	2
14	Amplitude Modulation & Demodulation Trainer FT 1501	2
15	Mixer Charecterstics	2
16	SSB Modulation & demodulation FT -1559	2
17	Pulse code Modulator And Demodulator FT –1555	5
18	Delta Modulator FT – 1511	5
19	Pulse position Modulator and Demodulator FT –1554	4
20	Analog Time Divison Multiplexing demultiplexing	5
22	Frequency Shift keying Modulator	4
23	digital storage oscillsopes(tektronics)	7
24	PAM,PWM,PPM Modulators&Demodulators	2
25	FSK,PSK,QPSK, DPSK Modulator&Demodulators	1
26	Pulse Width Modulator and Demodulator FT –1554	3
27	PULSE AMPLITUDE Modulator&Demodulators	3
28	Amplitude Shift keying Modulator&Demodulators	3
30	Differitial phase shift keying Modulator&Demodulators	3
31	Phase Shift keying Modulator&Demodulators	3
LDIC LAB		
1	Oscilloscopes	11
2	Digital Function Generators	8
3	Digital Multimeters	2
4	Fixed Power Supply	5
5	Transistor as a switch FT 11013	2
6	Schmitt Tigger FT 1910	2
7	Astable Multivibrator FT 2001	2
8	Monostable Multivibrator FT 2003	2
9	Bistable Multivibrator FT 2002	2
10	Bootstrap Sweep CKT FT1913	2
11	Wave form Generator using IC 8038 FT 1916	2
12	Regulated Power Supply Using 723 FT 2407	2
13	V-I Characteristic of 7805 FT 2410	2
14	Astable & Monostable using 555IC FT2009	2
15	Digital IC trainer module Counter FT 1110	2
16	Digital IC FlipFlops FT 1133	2
17	Analog to Digital IC trainer FT 1180	2
18	D/A Converter 8 bit DAC FT 1192	2

19	Universal Trainer Kit	1
20	IC Trainer Kits	20
21	Voltage Stabilizer	1
22	ASLK pro boards	10
ELECTRONIC WORKSHOP LAB		
ELECTRONIC CIRCUIT ANALYSIS LAB		
1	Cathode Ray oscilloscopes	10
2	Dual power supplies	22
3	Signal generators	13
4	Decade Inductance box	6
5	Decade Resistance box	3
6	Decade Capacitance box	4
7	Voltage stabilizer	1
8	Ammeters (0-1)mA	1
9	Ammeters (0-100)mA	15
10	Ammeters (0-50)uA	4
11	Ammeters (0-100)uA	9
12	Ammeters (0-10)mA	1
13	Ammeters (0-50)mA	4
14	Ammeters (0-200)mA	2
15	Ammeters (0-20)mA	7
16	SCR Characteristics kit	5
17	MOSFET Characteristics kit	5
18	TRIAC Characteristics kit	5
19	DIAC Characteristics kit	5
20	Digital Multimeters	15
21	Analog Voltmeters(0-2V)	6
22	Analog Voltmeters(0-20V)	6
23	PCB prototype Making Antenna Design Machine	1
MICROWAVE ENGINEERING LAB		
1	Klystron Power Supply	4
2	Klystron Mount with Klystron Tube	11
3	Isolator	13
4	Variable Attenuator	11
5	Frequency Meter(Digital Reading Type)	6
6	Slotted section with probe carriage	8
7	VSWR meter	4
8	Tunable Probe	6
9	Waveguide stands	35
10	Gunn Power Supply	3
11	Pin Modulator	3
12	Movable Short	3
13	Matched termination	30
14	Magic Tee	5
15	H-Plane Tee	4
16	E- Plane Tee	4
17	Detector Mount	9
18	SS Tuner	6
19	Cooling Fan	6
20	Gunn Oscillator	3
21	T-Circulator	3
22	Y-Circulator	3
23	Fixed attenuator 3dB	4
24	Fixed attenuator 6dB	4
25	Fixed attenuator 10dB	4
26	Multihole directional Coupler	5
27	Servo Voltage Stabilizer 5KVA	1
28	Digital Multimeter	1
29	Optical Power meter ST 2551	1
30	Laser Trainer Kit	2
31	RF Current probe	1
32	Line impedance stabilization network accessories	1
33	RF Signal generator with all accessories	1

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

S.No.	Name of the Equipment	Quantity
EMBEDDED PROCESSOR LAB		
1	DC POWER SUPPLY 5 VOLTS	3
2	8086 LCD TRAINER KIT	1
3	DIGITAL STORAGE OSCILLOSCOPE	2
4	8051 MICRO CONTROLLER TRAINER KIT	3
5	STEPPER MOTOR MODULE	2
6	LINK SYS ROUTER	1
7	POWER SUPPLY 12 VOLTS	5
8	UNIVERSAL PROGRAMMER	2
9	AVR DEVELOPMENT BOARD	2
10	PIC KIT 2 DEBUG EXPRESS	2
11	COMPUTERS DELL MONITORS	5
12	C-2000 LAUNCH PAD EVALUATION KIT	5
13	ARM 7 TRAINER KIT	3
14	LOGIC ANALYZER KIT	2
15	DIGITAL LAZER TACHOMETER	2
16	DIGITAL CLAMP METER	2
17	ARDUINO BOARD	5
18	ROBO DEVELOPMENT KIT	2
19	8051 MICRO CONTROLLER TRAINER KIT - GSAS	5
20	PIC DEVELOPMENT BOARD TRAINER KIT - RDL	5
SYSTEMS & SIMULATION LAB		
1	MIPOWER 6.0 SOFTWARE	5
2	MATLAB 9.2 VERSION R2017B SOFTWARE	25
3	ORCAD CAPTURE	5
4	VACCUM CLEANER	1
5	LENOVA THINK CENTER CORE I3 COMPUTER	32
6	SABERRD SOFTWARE	10
7	JMAG SOFTWARE	2
8	SCILAB SOFTWARE	10
POWER ELECTRONICS & SIMULATION LAB		
1	1 PHASE DIMMERSTAT	2
2	3 PHASE DIMMERSTAT	1
3	SERVO CONTROL VOLTAGE STABILIZER	1
4	CHARACTERISTICS OF SCR	1
5	DC JONES CHOPPER	2
6	STUDY OF SCR FIRING CIRCUIT	2
7	SINGLE PHASE CYCLO CONVERTER	2
8	DECADE RESISTANCE BOX	1
9	DC PANEL METER (0-30)V	2
10	DC PANEL METER (0-50)MA	2
11	SINGLE PHASE PARALLEL INVERTER	2
12	SINGLE PHASE AC VOLTAGE CONTROLLER	2
13	SINGLE PHASE FULLY CONTROLLED CONVERTER	2
14	SINGLE PHASE HALF CONTROLLED CONVERTER	1
15	THREE PHASE FULLY CONTROLLED CONVERTER	1
16	OSCILLOSCOPE	2
17	SERIES INVERTER	2
18	DC DRIVE DUAL CONVERTER	1
19	DC REGULATED POWER SUPPLIES	4
20	DIGITAL MULTIMETERS	6
21	FORCED COMMUTATION CIRCUITS	2
22	CHARACTERISTICS OF SCR, DIAC, MOSFET & IGBT KIT	2
23	LENOVA THINK CENTER COMPUTERS CORE I3	5
24	DIGITAL STORAGE OSCILLOSCOPE	4
POWER SYSTEM AND CONTROL AUTOMATION LAB (M.Tech)		
1	UPS ELNOVA 2KVA	1
2	RELAY TEST SET	1
3	POWER TRANSMISSION LINE	1
4	PSCAD SOFTWARE X4 ACADEMIC LICENSE	5
5	LENOVA THINK CENTER CORE I3 COMPUTERS	5
6	CLAMP ON CURRENT PROBES	16

7	WAVEFORM VIEWER SOFTWARE FOR DSO	1
8	CLAMP ON POWER METER	1
9	CW VIEWER SOFTWARE	1
10	DIGITAL STORAGE OSCILLOSCOPE	1
11	GENERATOR PROTECTION MODULE 1KVA	1
12	TRANSFORMER PROTECTION MODULE 2KVA	1
POWER ELECTRONICS & DRIVES LAB (M.Tech)		
1	SOFTWARE EDWIN XP	1
2	3-PHASE SEMI CONVERTER	1
3	3-PHASE AC VOLTAGE CONTROLLER	1
4	3-PHASE PWM INVERTER	1
5	4 QUADRANT CHOPPER FED DC DRIVE	1
6	DIGITAL MULTIMETER	4
7	BLDC MOTOR DRIVE	1
8	DC DRIVE TRAINER	1
9	DUAL CONVERTER	1
10	1-PHASE PWM INVERTER	1
11	3-PHASE INVERTER FED DRIVE	1
12	DIGITAL STORAGE OSCILLOSCOPE	5
13	LENOVO THINK CENTER CORE I3 COMPUTERS	5
14	NI MYRIO 1900	1
15	IGBT INVERTER MODULE	1
16	VOLTAGE SOURCE INVERTER	1
DEPARTMENT OF INFORMATION TECHNOLOGY		
S.No.	Name of the Equipment	Quantity
DATABASE MANAGEMENT SYSTEMS /WEB PROGRAMMING/NETWORK PROGRAMMING LAB		
1	LENOVO THINK CENTRE SYSTEMS CORE I3 PROCESSOR; 8GB RAM 500GB HARD DISK – Computer	35
2	VOLTAS AIR CONDITIONER CAPACITY 7.5 TONS	1
3	Delta 11 KVA UPS	1
4	12 V 42 AH Batteries	20
5	Cisco switch 24 port	2
6	Enter E 50 MPR Webcams	55
DATA STRUCTURES / OBJECT ORIENTED PROGRAMMING THROUGH JAVA / COMPUTER NETWORKS LAB		
1	Dell Optiplex 3060 MT E1916HE Monitor, Intel core I7 8700(6c/12MB/12T upto 4.6GHz/65W) 1X16GB DD4	35
2	Cisco switch 24 port	2
3	Split Air-Conditionner(D 4.0 Ton Ductable)	1
4	Delta 11 KVA UPS	1
5	12 V 42 AH Batteries	20
IT WORKSHOP Lab - 1		
1	IBM THINK CENTRE, A50 series, 9215-Intel PIV@2.6ghz, Intel 915 Chipset, 1.44FDD,48x CD ROM, DDR1 RAM 512MB(8No's), 1GB (3No's) 80GB hdd,15''IBM color monitor, Keyboard & Optical Mouse	5
2	IBM THINK CENTRE, A51 series, 8123-Intel PIV@2.6ghz, Intel 915 Chipset, 1.44FDD,48x CD ROM, DDR2 RAM 1GB, 80GB HDD, 15'' IBM Color monitor, Keyboard & Optical Mouse	10
3	LENOVO THINK CENTRE SYSTEMS CORE I3 PROCESSOR; 8GB RAM 500GB HARD DISK – Computer Systems	15
4	Voltas Window Air Conditioner	3
5	Fans	9
6	Delta 11 KVA UPS with 8 batteries	1
7	D Link 24 Port Switch	1
IoT LAB		
1	LENOVO THINK CENTRE SYSTEMS CORE I3 PROCESSOR; 8GB RAM 500GB HARD DISK – Computer Systems	15
2	Lenovo Think Center M70E Intel Core 2 Duo E7500 DDR3 2GB RAM, 320 GB Hard Disc, optical Keyboard and Mouse, 18.5" Monitor	4
3	Voltas Window Air Conditioner	2
4	D Link 24 Port Switch	1
5	10 KVA UPS	1
6	3Mhz Function generator	3
7	100Mhz,Two channel digital storage oscilloscope	2
8	30 Mhz,Two channel Analog oscilloscope	1
9	AVR 8535 atmega MCU board	1
10	AT89C51ED2 MCU boards	10

11	5 V,100mA power supply	10
12	8-bit Digital to analog converter	2
13	8-bit analog to digital converter	2
14	7-segment display board	2
15	4X4 matrix key board interfacing	2
16	12 V,DC gear motor	5
17	12 v,stepper motor	3
18	connectors	1
19	Bread Board(Wish)	10
20	Arduino starter UNO kit	4
21	Node MCU ESP8266 wifi module	4
22	Light Detecting Sensor,3.3-5V	2
23	Ultrasonic Sensor	2
24	Pressure Sensors	2
25	IR Sensor	2
26	Gas Sensor with MQ303A	2
27	DHT Sensor	2
28	DC power supply 5V,3A	10
29	Raspberry Pi 3 Model + adapter + case	4
30	5mm LED	20

DEPARTMENT OF MECHANICAL ENGINEERING

S.No.	Name of the Equipment	Quantity
CAD/CAM LAB		
1	(a) Lenovo think center 710 tower model intel core i5, 8GB DDR 4 RAM, 1TB HDD (b) Lenovo E 2054 model 19.5 LED monitors	75 Nos
2	(a) Lenovo think center 710 tower model intel core i5, 8GB DDR 4 RAM, 1TB HDD (b) Lenovo E 2054 model 19.5 LED monitors	1 No
3	Dell precision T 1600 workstation with 1TB HDD, 8 GB Ram, 19 inch LED monitor	1 No
4	Dell Precision T5820 Workstation with Xeon W2125-128GB, 1TB HDD, 800GB SSD, Quadro P4000 8GB	1 No
5	Enter E-50MPR Webcam	60 Nos
6	Gigabyte GT1030 2GB DDR5 Graphic card with HDMI to VGA cable	76 Nos
7	CISCO SG95 Network switch 24 port	5
8	Hitachi CPX 3042 LCD Projector	1No
9	Motorized LCD Screen	1No
10	Fiber connection for Lab AMP 6f fiber cable 200 mts, Media converter 2 Nos, Fiber Termination box 2 Nos, OFC patch cards 4 Nos, splicing charges for optical fiber cables 4 Nos	1Set
11	CATIA V5R6	5 Seats
12	Iron CAD (Modeling) software	Unlimited
13	ANSYS 7.0 (Univ.Low); 16,000nodes; Floating License on a network	5 Seats
14	MasterCam V9.1 (Educational)	3 Seats
15	Pro-E wild fire 3.0 Univ. Edition Educational (perpetual license)	3 Seats
16	NISA software (Modules: Display, Statics, Advanced Dynamic Analysis, Heat, 3D fluid, Optimization, Dymes)	5 Seats
17	UG N x 7.5	2 seats
18	Altair Hyperworks Industry Standard Software Verion 13	10 seats
19	Ansys Version R2-2019 a) Mechanical b) CFD each	50 users
ENGINEERING DRAWING		
1	DRAWING TABLES WITH STOOLS	65
ENGINEERING WORKSHOP		
1	Anvils	2 Nos
2	Anvils	1No
3	Drilling machine-1No	1No
4	Carpentry bench vices	5Nos
5	Fitting Bench vices	20No
6	Shearing Machine	1No
7	Leg vice	1No
8	Portable Hand Drilling Machine	1No
9	Swage Blocks	2Nos
10	Wood Turning lathe	1No
11	Wood Planning Machine	1No
12	Electrical Blower	1No
13	Electrode Make Impact Drill Machine	1No

14	Carpentry Bench Vice 9"	4Nos
15	APEX Carpentry Bench Vices	5Nos
16	Carpentry Bench Vice 8"	8 Nos
17	Fitting Bench vices 6"	4 Nos
HEAT TRANSFER LAB		
1	Forced convection apparatus	1No
2	Natural convection apparatus	1No
3	Emissivity measurement apparatus	1No
4	Lagged pipe apparatus	1No
5	Double Pipe Parallel flow/ counter flow heat exchanger	1 No
6	Heat Pipe Demonstrator	1No
7	Drop Wise and film wise condensation	1No
8	Heat Pipe Demonstrator	1 No
9	Heat transfer through a concentric sphere heat transfer through insulation powder	1 No
10	Thermal Conductivity of Metal Rod	1 No
11	Composite Wall Apparatus	1 No
12	Critical Heat Flux Apparatus	1 No
13	Stefan Boltzmann Constant Apparatus	1 No
MANUFACTURING TECHNOLOGY LAB		
1	Bench Grinding Machine, 150 Mm, Rythem Make	1No
2	Hydraulic Operated Hack-Saw Machine, 8",Jaswant Make	1No
3	Lathe (41/2 ¹) universal	1No
4	Lathe(Cone Pulley)Sona,Ld-1,41/2'	1No
5	Lathe (Cone Pulley)Pilot,6',Png-2	1No
6	Lathe (All Geared)Panther,1350/2	1No
7	LATHE (ALL GEARED) SPIL/MMMLOYAL, 170-G1,700mm	3Nos.
8	SURFACE GRINDING MACHINE, BMT MODEL M-1020 OT,500mm X 225mm	1No.
9	UNIVERSAL MILLING MACHINE,GEARED HEAD, SG-2 1020mm X 250mm -	1No.
10	Shaper, Geared Head, Sandhu,18" Stroke	1No
11	Digital Vernier Caliper	1No
12	RADIAL DRILLING MACHINE 0.37kw, 0.5H.P, 1440rpm Kirloskar Make Motor 3 Phase1.1Kw 1.5 H.P. 1440Rpm) Kirloskar make Motor 3phase Box table to use with 38mm D.M V-belt 2 nos for 38mm Cap.D.M	1No
13	Mini Lathe (BED LENGTH 3 ft)	1No
14	Tool & Cutter Grinder with universal Vice	1 No
15	Electric EBC 40 HAND BLOWER	1No
16	GWS 6 – 100 Bosch Hand GrindingM/C	1No
17	Laser entech IR Thermometer 42570 with calibration	1No
18	Lathe Tool Dynamometer with data Acquisition system	1No
19	Drill Tool Dynamometer	1No
MATERIAL SCIENCE LAB		
1	Jominy End Quench Apparatus	1No
2	Dry Linisher	1No
3	Specimen Leveller	1No
4	Heat Treatment Furnace(0-1000deg.)	1No
5	Specimen Mounting Press	1No
6	Double Disc Polishing Machine	1No
7	Monocular Microscope With Imported Lenses	3No
8	Binocular Microscope With Imported Lenses -	2Nos.
9	Hand Polishing Stand -	2Nos.
10	Electrically Operated Bench Grinding M/C 0.5 Hp	1No
11	Binocular Metallurgical Microscope	5Nos
12	Metallurgy Microscopes Binocules	5Nos
13	Muffler Furnance Heavy Duty Digites Types Model Kmf 45	1No
METROLOGY LAB MACHINE TOOLS LAB		
1	VERNIER CALLIPERS, 200mm, MITUTOYO	3NO
2	OUTSIDE MICROMETER, 0-25mm	1NO
3	OUTSIDE MICROMETER, 25-50mm	1NO
4	OUTSIDE MICROMETER, 50 – 75mm	1NO
5	OUTSIDE MICROMETER, 75-100mm	1NO
6	VERNIER DEPTH GAUGE, 150mm	1NO.
7	SCREW THREAD MICROMETER,25-50mm	1NO
8	GEAR TOOTH VERNIER CALLIPERS,1-26mm MODULE	1NO
9	DOUBLE END SCREW THREAD PLUG GEAUGE	1 NO

10	ADJUSTABLE SNAP GAUGE 13-19mm	1NO
11	ADJUSTABLE SNAP GAUGE 19-25mm	1NO
12	VERNIER HEIGHT GAUGE 450mm	2NO
13	CYLINDER/BORE GAUGE (DIAL TYPE) 50 – 150mm	1NO
14	MAGNETIC STAND WITH DIAL GAUGE	3NO
15	V-BLOCK WITH CLAMPS – 1PAIR	1NO
16	COMBINATION SET 300mm	1NO
17	SPIRIT LEVEL, HIGH PRECISION 0.02mm/m BLOCK OR STRAIGHT TYPE 200mm	1NO
18	INSIDE MICROMETER, INTERCHANGEABLE ROD TYPE 25 – 50mm 50 – 200mm	2 NO
19	VERNIER BEVEL PROTRACTOR (UNIVERSAL)-	1NO
20	SINE BAR 200mm	2 NO
21	SURFACE PLATE (GRANITE) 600x600x80mm WITH STANDS AND LEVELLING SCREWS	2NO
22	SLIP GAUGE SET 112 PCs	3 set
23	STAND FOR ITEM NO`21 WITH LEVELLING SCREW	2NO.
24	C.I SURFACE PLATE	1NO.
25	Surface Plate	1NO.
26	TOOL MAKERS MICROSCOPE	1NO.
27	Digital Vernier Callipus	1No
28	MITUTOYO JAPAN MAKE SURFACE ROUGHNESS TESTER – SURFTTEST SJ-201 With Std. Accessories	1NO.
29	MITUTOYO MAKE MICRO METER-0-25MM SIZE	1NO.
30	MITUTOYO MAKE MICRO METER 25-50 MM SIZE	1 NO
31	MUTUTOYSA MAKE MICROMETER 50-75 MM SIZE	1 NO
32	MITUTOYO VERNICER CALLIPER 0-200 MM SIZE	1 NO
33	MTUTOYO DIAL BORE GAUGE. 35-60 MM SIZE	1 NO
34	SLIPGAUGE SET 83 PCS WORKSHOP GRADE	1 NO
35	INSIZE MAKE BEVEL WITH 150 AND 300 MM BLADE	1 NO
36	MITUTOYO DIAL GAUGE LC 001 MM	1 NO
37	SCREW THREAD MICROMETER 25-50 MM RANGE	1 NO
38	GEAR TOOTH VERNIER CALIPER M1 – 26,	1 NO
39	SCREW PITCH GAUGES	2 NO
40	DIAL BORE GAUGE 35-160MM	1NO
41	Thread pich gauge	1NO
42	Screw pitch gauge	1NO
43	Measurement Of Capacitance Using Capacitance Transducer Consisting Of A) Capacitive Transducer -1set B) Digital Indicator 1 Set	1NO.
44	Measurement Of Speed Using Photo & Magnetic Pickup	1 NO.
45	Measurement Of Temperature Using Resistance Consists Of A) Digital Indicator (B) Rtd (C) Heatsource- Temperature Detector	1NO.
46	Resistance Coil And Carey Forster's Bridge	1 NO
47	Potentiometer And Thermocouple Calibration Setup	1NO.
48	Resistance Box (0.1 To 10 Ohms)	1 NO
49	Resistance Box (1 To 10,000 Ohms)	1 NO.
50	Strain Guages Setup With Measuring Bridge (Own Make)	1NO.
51	Thermistor Setup- (Own Make)	1NO.
52	Function Generator Capable Of Producing Waves (0.1 Hz – 100 KHz) - Sine, Square & Triangular	1NO
53	Sonometer – Vibration Of Strings Setup	1NO
54	Galvanometers	3NOS.
55	TACHOMETER (Contact And Non Contact Type).	1NO
56	Digital Multimeter	1NO.
57	Cathode Ray Oscilloscope	1NO
58	Weight Hangers	1 SET
59	McLeod Gauge	1NO
60	Lvdt Unit	1NO
61	Capacitance Transducer For Angular Displacement	1NO
62	Photo & Magnetic Speed Pickup	1NO
63	Dead Weight Pressure Gauge Tester	1NO
64	Thermocouple Study Trainer	1 NO
65	Temperature Measurement Trainer	1 NO
66	Rtd Characteristics Trainer	1 NO
67	Torque Measurement Trainer	1 NO
68	Strain Measurement Trainer	1 NO
69	Vibration Measurement Trainer	1 NO

PRODUCTION TECHNOLOGY		
1	Air-Cooled Arc Welding Transformer With Accessories	1No
2	D.C. Welding Machine Of 450 Amp Capacity For MMA And Tig Welding Formal And Tig Welding	1No
3	Mig Welding Machine Of 250amp Capacity	1No
4	Gas Welding Set	1No
5	Pipe Bending Machine	1No
6	SPOT WELDING MACHINE (15 Kva Pedal Operated Rocker Arm Type)	1No
7	Universal sand Strength machine with all accessories	1No
8	Hand Injection Moulding With Die Heater Regulator 1”0Z Cap.	1No
9	Hand operated pillar type press No-4 Handle wheel JK	1No
10	Gas Cutting Torch ESAB Cutogen-5	1No
11	Graphite Crucible Vertical type top loading melting furnace	1 No
12	Ultrasonic metal and plastic welding machine	1No
13	Oxygen , acetylene gas cylinder	1No
THERMAL ENGINEERING LAB		
1	Twin cylinder diesel engine test rig-1 no twin cylinder 10 HO vertical water cooled engine with DC sunhut generator	1No
2	2 stage Air compressor	1No
3	Vapour compression refrigerator test rig	1No
4	Tachometer with all spares	1No
5	Two stroke petrol engine Vijay Pushpak	1No
6	Two stroke petrol engine Bajaj	1No
7	Model of Cochran boiler	1No
8	Model of locomotive boiler	1No
9	Demonstration models	4Nos
10	Air conditioning test rig with water cooling heating humidification and dehumidification	1No
11	2 Stroke petrol engine test rig with rope brake dynamometer	1No
12	separating and throttling calorimeter	1No
13	compressibility factor measurement of different gases	1No
14	Finned tube heat exchanger	1No
15	Four stroke single cylinder diesel engine slow speed diesel engine with retardation test rig	1No
16	Engine test setup three cylinder four stroke petrol engine test rig	1No
17	Single phase mono block motor 1 HP single phase 2880 RPM mono block MFD by Texmo industries	1No
18	Dell Computer	2Nos
19	Computerized VCR Engine	1No
20	Gas Analyzer & Smoke Meter Indus 5	1No
21	UPS Backup	1No
22	Electronic Variable injection timing	1No
23	Turbo Air Charging System	1No
24	Water Cooled EGR System for single cylinder engine setup	1No
CAD/CAM(ADVANCED CAD LAB)		
1	Fatigue Testing machine Bending	1 No
2	Horizontal hard beading microprocessor based dynamics balancing machine Model FBM - 50 M.Sr. No 195/2013	1 NO
3	MotORIZED Gyroscope Apparatus	1 NO
4	Universal Vibration Apparatus	1 NO
5	Static & Dynamics Apparatus	1 NO
6	Pin On Disc Friction & Wear Test Rig (TR-20-CHM-500 with specialisation)	1 No
7	FFT Analyser with Accessories	1No
CAD/CAM(CAM LAB)		
1	ACE CNC LATHE MACHINE WITH FANUC CONTROLLER	1No
CAD/CAM(MECHATRONICS LAB)		
1	a) Bipedal Robot(servo enabled robot with voice module and Android Driven) b) ET Table kit v4 (Table kit for Engineering students, Arduino developed tool kit with sensors, motor and circuit making components) c) Jubie Robot (The magical serving robot- Bluetooth/Mobile Controlled Robot with 12V power supply)	1Kit
2	Linear slide (linear slide with timing belt each 300mm stock posting sl repeatability accuracy with in 30 microns, Motors, Belt Carriage DD35, DD35 Arm, Platform, Motherboard, Power Supply, Machine from elements, DC-DC converter DD 35, Heated Bed (250- 1250), Nozzle (300 – 2550), 3D Printer Filometer, Firmurre dimension dual delta, Simplify 3 D printing software license, Training and installation commission of dimensional dual delta 3 d printer switched XYZ printing accuracy calibration etc., Head sl extrusion (single head dual extrusion technology accuracy to print materials with onenozzle)	1Set
3	J Group Robotics made 3d Printer with Simplify 3D software	1 Nos

4	FARO make Co-ordinate Measuring Machine	1No
5	Dell Optiplex 3060MT model Computers (intel core i7-8700, 1x16Gb DDR4 RAM, 1TB SATA HDD, AMD Radeon Rx550 4GB Graphic card, Dell E1916HE 18.5" monitor	12 Nos
6	Supply of System Engineering items for demo training cell for 6-Axis, 4kg, Articulated Robot (Make: Mitsubishi) with vision BOM (Application Inspection)	1 No
7	Supply of System Engineering items for demo training cell for 6-Axis, 3kg, SCARA Robot (Make: Mitsubishi) with vision BOM (Application pick and place)	1No
8	Rv-4frl-d	1 No
9	Parallel I/O Interface (source)	1 No
10	Teaching box for Articulated Robot	1 No
11	Break out Board Type –FLKM-D37 SUB/S	2 Nos
12	Robot hand input cable	1 No
13	RH Robot FR Series 3kg with 350mm reach	1 No
14	Teaching box for SCARA	1 No
15	Solenoid valve set for Robot	1 No
16	Robot hand input cable for SCARA	1 No
17	Parallel I/O Interface source for SCARA	1 No
18	Break out Board Type –FLKM-D37 SUB/S for SCARA	2 Nos
19	X corded Ethernet cable 5M	1 No
20	Power and I/O M12-12-5M cable	1 No
21	In-sight 7801 1.3MP with PatMax	1 No
22	2DOF PARALLEL KINEMATIC MACHINE FOR DRILLING	1No
23	3DOF PARALLEL KINEMATIC MACHINE FOR MILLING	1No
24	CONTROL X SIM SOFTWARE	1No
25	ROBO X SOFTWARE	3Nos
26	P SIMULATOR SOFTWARE	3Nos
27	H SIMULATOR SOFTWARE	3Nos
28	PLC SOFTWARE	1No
29	PLC HARDWARE	1No
30	LINIER CONVEYOR	1No
31	ROTARY TABLE	1No
32	XY TABLE	1No

THERMAL ENGINEERING (THERMAL SYSTEMS DESIGN LAB)

1	(a) Lenovo think center 710 tower model intel core i5, 8GB DDR 4 RAM, ITBHDD (b) Lenovo E 2054 model 19.5 LED monitors	16 Nos
2	Gigabyte GT1030 2GB DDR5 Graphic card with HDMI to VGA cable	16 Nos
3	NETIS 24 PORT SWITCH, DLINK 6U RACK	1No

DEPARTMENT OF COMPUTER APPLICATIONS

S.No.	Name of the Equipment	Quantity
COMPUTER LAB		
1	Jakmister 500 Watts Forward Curved Air Blower Air Heavy Jak	1
2	LG GP65NB60 External DVD Writer (Black)	1
3	VGA TO HDMI Cable	1
4	Sound Audio Converter	1
5	Hard Disk 500 GB Seagate	2
6	Key Board Intex KB combo 314	2
7	Mother Board ZEB 61	1
8	CPU I3 3rd Gen. Processor	1
9	Desktop 4 GB DDR3 RAM	1
10	Logitech Mk 120 Wired Combo (BOO4X191EQ)	2
11	Zebronic Wired Keyboard and Mouse Combo with 104 Keys and a USB Mouse with 1200 DPI -JUWDAA 750 B07KR5P 3 YD, HSN : 8471	2
12	Intex Cabinet	1
13	D-Link RJ 45 Connectors	18

DEPARTMENT OF PHYSICS

S.No.	Name of the Equipment	Quantity
1	AC Milivoltmeter	4
2	Ammeter	9
3	Battery Eliminators	13
4	Commutators	14
5	Convex Lens	12
6	Capillary Tube	5
7	Carry Foster Bridge	1
8	Compound Pendulum	3

9	Gratings	9
10	Digital Multimeters	10
11	DPDT switches	1
12	Deflection Magnetometer	4
13	Function generators	9
14	Frequency Generators (Audio)	2
15	Fibre Optics Kit	10
16	LCR Boards	11
17	Mercury Lamp (80 Watts)	1
18	Measuring Jars (100 ml)	4
19	1/2 metre scales	6
20	1 Meter Scales	10
21	Physical Balance	1
22	Plug Keys	3
23	Rubber Hammers	3
24	Rheostats	11
25	Rough Balance	2
26	Resistance Box	2
27	Retord stands	18
28	Reading lens	7
29	Spectrometers	10
30	Sodium Vapour Lamp	7
31	Step down Transformer	2
32	Stop Clocks	2
33	Sonometer	5
34	Stewart and Gee	8
35	Steam Boilers	3
36	Standard Resistances(1 Ω)	3
37	Standard Resistances(2 Ω)	6
38	Standard Resistances(5 Ω)	6
39	Screw Gauge	10
40	Spirit Levels	7
41	Torsional Pendulum	4
42	Tunning Forks set	3
43	Thermometers (0-110 deg C)	10
44	Voltmeters	21
45	Vibration Magnetometer	3
46	Vernier Callipers	6
47	Weight Hangers(100g)	5
48	Weight Hangers(500g)	7
49	Weight Hangers(50g)	3
50	Lees Apparatus	3
51	Weight Boxes	9
52	Travelling Microscopes	11
53	Visual Charts	6
54	Fiber Optics Kit	10
55	Melde`s Experiments	9
56	He-Ne Laser	1
57	Thermo electric pelteir effect	1
58	Thermo electric Current geneator	1
59	Particle Size Expt., kit	5
60	Plancks Constant Kit	5
61	Solar Cell Appartus	8
62	Cathode Ray Oscilloscopes	5
63	Strain gauge	2
64	Soldering iron	1
65	Four Probe Apparatus	2

DEPARTMENT OF CHEMISTRY

S.No.	Name of the Equipment	Quantity
1	ABELS flash point apparatus	2
2	Carbon residue apparatus	1
3	Cleavland apparatus	1
4	Colorimeter	2
5	Conductivity meter	4

6	Conradson carbon residue apparatus	1
7	Cryostat	1
8	Digital electronic balance	1
9	Digital pH meter	4
10	Digital potentiometer	3
11	Double distillation	1
12	Heating mantles	2
13	Hot air oven	1
14	Hot plate with magnetic stirrer	1
15	Penetrometer	1
16	Polarimeter	1
17	Refrigerator	1
18	Spectrophotometer	1
19	Thermostat	2
20	UV-Vis spectrophotometer	2

DEPARTMENT OF ENGLISH

S.No.	Name of the Equipment	Quantity
ENGLISH LANGUAGE COMMUNICATION SKILLS LAB		
1	Desktop Computers	63
2	LCD PROJECTOR (HITACHI)	1
3	Wallmount Screen	1
4	Sound System - Amplifier with 4 speakers (Ahuja)	1
5	Lloyd Air Conditioners	4
6	Zebrox Headphons	70
7	Dlink switch 24 port	3
8	Dlink switch 1 port	1
TECHNICAL COMMUNICATION AND SOFT SKILLS LAB		
1	Desktop Computers	60
2	LCD PROJECTOR (NEC)	1
3	Wallmount Screen	1
4	Sound System - Amplifier with 4 speakers (Ahuja)	1
5	Dlink switch 24 port	4
6	cisco switch 24 port	1

LAB FACILITIES EXCLUSIVE TO PG COURSES

DEPARTMENT OF CIVIL ENGINEERING

S.No.	Name of the Equipment	Quantity
ADVANCED STRUCTURAL ENGINEERING LABORATORY		
1	Demountable Mechanical Strain Gauge	1
2	Rebound Hammer	1
3	Concrete Crack Microscope	1
4	Accelerated curing tank, vibration table	1
5	Motor Construct Stratur	1
6	V-Funnel, U Box, J ring	1
7	Ultrasonic Pulse Velocity	1
8	Rebar Locator / Cover Meter	1
INFRASTRUCTURE ENGINEERING AND MANAGEMENT (COMPUTER LAB)		
1	Lenovo Think Center, I 3 PRO, 4GB RAM, 500 GB HD 18.5 LED	66
2	D-Link Switches 24 Ports	3
3	TP Link Switch 16 Ports	1
4	UPS 40 KVA Vertiv	1
5	Lloyd Air Conditioner	4
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING		
S.No.	Name of the Equipment	Quantity
M.TECH. LAB		
1	Intel Core-i7, 16 GB RAM, 1TB HDD, 18.5" Monitor	40
2	GPU (intel core i7 8700K Processor, NVIDIA Titan XP Graphic Card)	1
3	NAS Cloud 24TB	1
4	CISCO SWITCH 48 PORT	1
5	CISCO SWITCH 24 PORT	1
6	WALL MOUNTED LCD PROJECTOR	1
M.TECH. PROJECT LAB		

1	4 Antenna WiFi Router	1
2	20 Nodes LAN Connectivity	1
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING		
S.No.	Name of the Equipment	Quantity
VLSI DESIGN /DSP LAB		
1	J TAGS	15
2	CADENCE SOFTWARE	20
3	RENEWAL OF CADENCE SOFTWARE	20
4	XILINIX SOFTWARE	1
5	ARM PROCESSOR KITS	15
6	ARM 7 KITS	10
COMMUNICATION ENGINEERING & SIGNAL PROCESSING LAB		
1	MATLAB	150
2	MATLAB FL FUZZY LOGIC TOOL BOX 2.2.21	5
3	MATLAB OP OPTIMIZATION TOOL BOX7.2	5
4	MATLAB SG SIGNAL PROCESSING TOOL BOX7.0	25
5	MATLAB IP IMAGE PROCESSING TOOL BOX 9.2	5
6	MATLAB CM COMMUNICATION SYSTEM TOOL BOX	25
7	SIMULINK	75
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING		
S.No.	Name of the Equipment	Quantity
POWER SYSTEM AND CONTROL AUTOMATION LAB		
1	UPS ELNOVA 2KVA	1
2	RELAY TEST SET	1
3	POWER TRANSMISSION LINE	1
4	PSCAD SOFTWARE X4 ACADEMIC LICENSE	5
5	LENOVA THINK CENTER CORE I3 COMPUTERS	5
6	CF CARD	1
7	CLAMP ON CURRENT PROBES	16
8	WAVEFORM VIEWER SOFTWARE FOR DSO	1
9	CLAMP ON POWER METER	1
10	NIMH BATTERY	1
11	CARRYING CASE	1
12	CW VIEWER SOFTWARE	1
13	DIGITAL STORAGE OSCILLOSCOPE	1
14	GENERATOR PROTECTION MODULE 1KVA	1
15	TRANSFORMER PROTECTION MODULE 2KVA	1
16	LEM VOLTAGE TRANSDUCER	4
17	LEM CURRENT TRANSDUCER	4
POWER ELECTRONICS & DRIVES LAB		
1	SOFTWARE EDWIN XP	1
2	3-PHASE SEMI CONVERTER	1
3	3-PHASE AC VOLTAGE CONTROLLER	1
4	3-PHASE PWM INVERTER	1
5	4 QUADRANT CHOPPER FED DC DRIVE	1
6	DIGITAL MULTIMETER	4
7	BLDC MOTOR DRIVE	1
8	DC DRIVE TRAINER	1
9	DUAL CONVERTER	1
10	1-PHASE PWM INVERTER	1
11	3-PHASE INVERTER FED DRIVE	1
12	DIGITAL STORAGE OSCILLOSCOPE	5
13	LENOVO THINK CENTER CORE I3 COMPUTERS	5
14	NI MYRIO 1900	1
15	IGBT INVERTER MODULE	1
16	VOLTAGE SOURCE INVERTER	1
DEPARTMENT OF MECHANICAL ENGINEERING		
S.No.	Name of the Equipment	Quantity
CAD/CAM(ADVANCED CAD LAB)		
1	Fatigue Testing machine Bending	1 No
2	Horizontal hard beading microprocessor based dynamics balancing machine Model FBM - 50 M.Sr. No 195/2013	1 NO
3	Morotized Gyroscope Apparatus	1 NO

4	Universal Vibration Apparatus	1 NO
5	Static & Dynamics Apparatus	1 NO
6	Pin On Disc Friction & Wear Test Rig (TR-20-CHM-500 with specialication	1 No
7	FFT Analyser with Accessories	1No
CAD/CAM(CAM LAB)		
1	ACE CNC LATHE MACHINE WITH FANUC CONTROLLER	1No
CAD/CAM(MECHATRONICS LAB)		
1	a) Bipedal Robot(servo enabled robot with voice module and Android Driven) b) ET Table kit v4 (Table kit for Engineering students, Ardino developed tool kit with sensors, motor and circuit making components) c) Jubie Robot (The magical serving robot- Bluetooth/Mobile Controlled Robot with 12V power supply	1Kit
2	Linear slide (linear slide with timing belt each 300mm stock posting sl repeatability accuracy with in 30 microns, Motors, Belt Carriage DD35, DD35 Arm, Platform, Motherboard, Power Supply, Machine from elements, DC-DC converter DD 35, Heated Bed (250- 1250), Nozzle (300 – 2550), 3D Printer Filometer, Firmurre dimension dual delta, Simplify 3 D printing software license, Training and installation commission of dimensional dual delta 3 d printer switched XYZ printing accuracy calibration etc., Head sl extrusion (single head dual extrusion technology accuracy to print materials with onenozzle	1Set
3	J Group Robotics made 3d Printer with Simplify 3D software	1 Nos
4	FARO make Co-ordinate Measuring Machine	1No
5	Dell Optiplex 3060MT model Computers (intel core i7-8700, 1x16Gb DDR4 RAM, 1TB SATA HDD, AMD Radeon Rx550 4GB Graphic card, Dell E1916HE 18.5” monitor	12 Nos
6	Supply of System Engineering items for demo training cell for 6-Axis, 4kg, Articulated Robot (Make: Mitsubishi) with vision BOM (Application Inspection)	1 No
7	Supply of System Engineering items for demo training cell for 6-Axis, 3kg, SCARA Robot (Make: Mitsubishi) with vision BOM (Application pick and place)	1No
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29	PLC HARDWARE	1No
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2	Gigabyte GT1030 2GB DDR5 Graphic card with HDMI to VGA cable	16 Nos
3	NETIS 24 PORT SWITCH, DLINK 6U RACK	1No
4	Separating and throttling calorimeter	1No
5	Compressibility factor measurement of different gases	1No
6	Finned tube heat exchanger	1No
7	Computerized VCR Engine	1No
8	Gas Anlayzer & Smoke Meter Indus 5	1No
9	Electronic Variable injection timing	1No
10	Turbo Air Charging System	1No
11	Water Cooled EGR System for single cylinder engine setup	1No

DEPARTMENT OF COMPUTER APPLICATIONS

S.No.	Name of the Equipment	Quantity
COMPUTER LAB		
1	Jakmister 500 Watts Forward Curved Air Blower Air Heavy Jak	1
2	LG GP65NB60 External DVD Writer (Black)	1
3	VGA TO HDMI Cable	1
4	Sound Audio Converter	1
5	Hard Disk 500 GB Seagate	2
6	Key Board Intex KB combo 314	2
7	Mother Board ZEB 61	1
8	CPU I3 3rd Gen. Processor	1
9	Desktop 4 GB DDR3 RAM	1
10	Logitech Mk 120 Wired Combo (BOO4X191EQ)	2
11	Zebronics Wired Keyboard and Mouse Combo with 104 Keys and a USB Mouse with 1200 DPI -JUWDAA 750 B07KR5P 3 YD, HSN : 8471	2
12	Intex Cabinet	1
13	D-Link RJ 45 Connectors	18