

A.V.C College of Engineering

Major Equipment List

Department of Information Technology

S.No	Equipment	
	Name	Make
1.	(Server) Infinite Global Line 2700 BD	HCL
2.	PIV System Node	HCL
3.	PIV System Node(23)	HCL
4.	System -Intel Core i3(35)	Lenovo
5.	Core i3 Systems	Lenovo
6.	Core i3 Systems	Lenovo
7.	10 KV UPS(2)	AQUA POWER
8.	10 KV UPS(1)	True Power
9.	Rack Server	IBM
10.	PIV Systems	HP
11.	Projector	Mitsubishi
12.	Projector	Sony
13.	Projector	Sony
14.	Projector	Sony

DEPARTMENT OF CSE

Name of The Lab:Multimedia Lab

Sl.No	Equipment	
	Name	Make
1	Systems	Lenovo
2	UPS	True Power
3	Batteries	Exide

Name of the Lab:Software Development Lab

1	Systems	Hp
2	Systems	Hp Elite 7100
3	Systems	Intel Core I3 10 th Gen
4	UPS	Auro Power
5	Batteries	Exide

Name of the Lab:Industry Collaboration Lab

1	UPS	True Power
2	Batteries	Exide

Name of the Lab:Common Computing Lab

1	Systems	Lenovo
2	UPS	True Power
3	Batteries	Exide

Department of Instrumentation & Control Engineering

S.I No	Equipment	
	Name	Make
1	Control Valve Characteristics for 2 Control Valve	Apex Innovations Pvt Ltd
2	Pressure Control Loop with SCADA	Apex Innovations Pvt Ltd
3	Feed Forward Control Trainer	VI Microsystems Pvt Ltd
4	Flow & Level Cascade Controller	VI Microsystems Pvt Ltd
5	PLC Based Complex Controllers with Controllers	VI Microsystems Pvt Ltd

6	UV/Vis - Spectro Photometer	Global Associates
7	Digital Storage Oscilloscope	Microtek Instruments
9	Digital Storage Oscilloscope	Microtek Instruments
10	LABVIEW software	Trident Techlabs Pvt Ltd
11	UPS	Consul Consolidated Pvt. Ltd
12	USB DAQ Card – LabVIEW	Cranes Software
13	LABVIEW software, DAQ card and Accessories	Trident Techlabs Pvt Ltd
14	Design of Control Valve	VI Microsystems Pvt Ltd
15	Design of PID using Microprocessor	VI Microsystems Pvt Ltd
16	Pressure Control in Process Control Training Plant	VI Microsystems Pvt Ltd
17	Design & Implementation of Multiloop PI Controller on 3 Tank System	VI Microsystems Pvt Ltd
18	Analysis of Multi Input Multi Output System (4 Tank)	VI Microsystems Pvt Ltd
19	PLC Controlled Bottle Filling System	VI Microsystems Pvt Ltd
20	PH Control Test Rig	Labtech Electronics Pvt Ltd
21	Multi Process controller(Cascade,Ratio)	ARK Automation Systems
22	Control Valve for spherical Tank system in Chemical Industries	Advanced Control Equipments
23	PLC Trainer Kit	Techshine Lab
24	Multi process trainer (Temperature and Pressure) for Industrial safety	Techshine Lab
25	Interacting trainer (conical tank) in pharmaceutical applications	Techshine Lab

Department of CIVIL

STRENGTH OF MATERIALS LABORATORY

SL.NO	EQUIPMENT NAME	RATING/MAKE
1	FIE Universal Testing machine(S.No: 1 /98-2341) shear test attachment with dies for 5,8,12,16,420mm dia round jobs. Extensometer model EM1	UTM 40
2	FIE Impact tester(S.No:1/98-243)	IT - 30
3	Spring testing machine of 250kgf capacity along with tension, compression test attachments-Model GX	GX
4	K M1 Tensile tester 5000N capacity with transverse speeds of 2.543, 8mm dia min.(S.No:3242)	1.4F
	Wedge grip extra inserts	F1031
	Compression testing fixture	F1032
5	Scientific equipment for wood tester along with all standard accessories	
6	FIE compression testing machine (S.No:3/98-2375)	CTM 100
7	FIE Vickers hardness tester VM-50	
8	Torsion testing machine Model:FIT - 200	

CONCRETE AND HIGHWAY ENGINEERING LABORATORY

SL.NO	EQUIPMENT NAME	RATING/MAKE
1	Laboratory concrete mixer	LM 17549
2	Laboratory CBR APDS	LM 17206
3	Ductility test apparatus	
4	marshall stability apparatus with 30 KN proving ring	
5	los angeles abrasion testing with counter and abressive charges (steel ball 12 Nos)	

SOIL MECHANICS LABORATORY

SL.NO	EQUIPMENT NAME	RATING/ MAKE
1	Direct shear Apparatus	LM - 17 - 230
2	Loading frame	LM - 17 - 105
3	consolidation Apparatus (Three Gang)	LM - 17 - 221
4	unconfined compression apparatus	LM 17293
5	relative density apparatus	LM 17346

HYDRAULIC ENGINEERING LABORATORY

SL.NO	EQUIPMENT NAME	RATING/ MAKE
1	Adjustable channel apparatus	Altech
2	Multistage centrifugal pump	Altech
3	Deep well pump testrig	Altech
4	Francis turbine testrig	Altech
5	Open circuit wind tunnel	Altech
6	DUI turgo impulse turbine test rig 1kN (closed circuit)	Diwyalaxmi
7	Kaplan turbine test rig 1kN	Altech

ENVIRONMENTAL ENGINEERING LABORATORY

SL.NO	EQUIPMENT NAME	RATING/MAKE
1	BOD incubator with Digital indicator	
2	COD digester model IPM 1906	
3	Gaschromatography	Systronics

4	Iron selective electrode	Elico
5	Atomic absorption photometer	Elico
6	Upgradation of the capillary column for gas chromatography	

SURVEY LAB

SL.NO	EQUIPMENT NAME	RATING/ MAKE
1	sokkia Electronic Total Station with standard accessories as per the literature (i) Tripod (ii) signal Tilting Range Prism assembly complete with Tripod (iii) 2 GB pen drive (iv) SET 550 x Main unit	Sokkia
2	Standard Vernier Theodolite with all accessories SI.No: 6463, 6449, 6349, 6344, 6456, 6441 Aluminium stand	Model ST20E
3	Dumpy Level DL - 9 white with all accessories SI.No: 15475, 15498, 15583, 15585, 15490, 15507 Aluminium stand	DL - 9 White

CADD LAB

SL.NO	EQUIPMENT NAME	RATING /MAKE
1	Bentley staad pro v8i	Bentley

Department of Mechanical Engineering

S. No	Equipment	
	Name	Make
1.	Revomax Boiler	Thermax Ltd
2.	Steam turbine test rig	Altech
3.	Single cylinder four stroke diesel engine with electrical Dynamometer	Wintech
4.	Single cylinder four stroke diesel engine with retardation test	Tech Ed
5.	Twin cylinder four stroke diesel engine with A/C generator	Tech Ed
6.	Four stroke multi cylinder (Maruti-800) petrol engine	Tech Ed
7.	Two stage 2 HP air compressor test rig	Tech Ed
8.	Gas analyser with smoke density meter	NEVCO

9.	Computerized data acquisition system in a Single cylinder four stroke diesel engine	Apex Innovations
10.	Refrigeration test rig	Wintech
11.	Air conditioning test rig	Wintech
12.	Air blower test rig	Wintech
13.	Balancing of Reciprocating Mass	B.S.Pyro -metics
14.	A0 size plotter	HP
15.	UPS	Electronics control
16	A1 size plotter	HP
17.	UPS	True Power

18.	Server	Acer
19.	CATIA V5 R10 (1 license)	IBM
20.	AutoDesk Inventor Series 11 (30 license)	Software Autodek
21.	Solid Works 2004 – 2005 (15 license)	VECTRA FORM
22.	ANSYS R10 (15 license)	ANSYS
23.	Unigraphics NX - 4 (15 license)	TCS
24.	Auto CAD 2008 Mecahnical Civil Electrical Revit 2008 (Each 15 license)	ICCSPL

25.	CAM Software	CADEM
26.	ANSYS Academic Teaching Mechanical & CFD (25 Licenses)	Ansys
27.	NX NASTRAN Academic Bundle (1 License)	NX Nastran
28.	DELL Precision 3640 Tower CTO Base Workstation (4 Numbers)	Dell
29.	CNC programming and tool path simulation for FANUC, Sinumeric and Heiden controller)	MTAB
30.	CNC STARMILL, XLTURN and Accessories	MTAB
31.	FMS	MTAB
32.	Center lathe	Anil – 2G
33.	Center lathe	Nagmati GNM -1

34.	Center lathe	Nagmati –H2
35.	Shaping Machine	Sagar
36.	Slotter	Sagar
37.	Universal Drilling Machine	PSG
38.	Radial Drilling Machine	Siddhap -ura
39.	Horizontal Milling Machine with Vertical Attachment	Raman
40.	Cylindrical Grinder	Saradha
41.	Surface Grinder/ Tool & Cutter Grinder	Guru Arjun
42.	Capstan Lathe	G D Wieler
43.	Bench Grinder	Swagath

44.	Power Hacksaw	Mathura
45.	Lab View Software	Lab view
46.	Software Fluid Sim – Pneumatic Software Fluid Sim – Hydraulic	FESTO
47.	Electro pneumatic trainer with PLC	FESTO
48.	Elec. Pneumatic Trainer consists of TP201/101	FESTO
49.	DIDACTIC Equipment Set	FESTO
50.	Computerised Data Logging System	LAB TECH

Department of ECE

S. No	Equipment	
	Name	Make
1	Antenna kit	Lab Tech
2	Antenna kit	Vi Microsystems Pvt Limited
3	100 MHz CRO	Vi Micro
4	RF kit	Vi Micro
5	Analog Digital transmitter & Receiver kit	Max Falcon
6	Csk_1000 Connectorisation cum splicing Kit	Falcon Electro-Tek
7	Fiber link E Kit	Falcon Electro- Tek Pvt Ltd
8	Spectrum Analyzer	Vi Micro
9	ORCAD Capture with PSPICE A/D	Reach
10	Digital Palm Scope	Escort
11	Troubleshooting model	Vikasha
12	X-Band Microwave Bench Setup.	Lab Tech
13	X-Band microwave Bench Setup.	Indus Engg.
14	Micro Wave Output Power Meter With Sensor.	Reach
15	X-Band microwave Bench Setup.	Lab Tech Electronics Pvt Limited
16	X-Band Microwave Bench Setup and antenna turn table to measure Radiation pattern of horn antenna.	Metlab Equipments
17	Microwave Bench at X band to determine VSWR for Isolator and	Metlab Equipments

	Circulator	
18	MAT LAB software.	Raghu Ram Asso-Ciates.
19	Mode observation Experimental kit	Falcon
20	Transceiver, APD Module Laser Kit	Falcon
21	TANNER EDA	Trident Techlabs
22	Digital Storage Oscilloscope(DSO)	Suntech
23	Mixed signal Oscilloscope	Pantech
24	MW-MATLAB/ MW- Signal Processing Toolbox(05-01)	Mw-Matlab
26	Wireless Digital Communication Training System (Wi-Comm-T)	Silicon Systems
27	Communication Lab Training System (Comm Lab-T)	Silicon Systems

DEPARTMENT OF EEE

SL.NO	EQUIPMENT	
	NAME	MAKE
CONTROL SYSTEM LAB		
1	DC & AC Servo motor	labtech electronics
2	Type 0 & Type 1 systems	labtech electronics
3	DC Generator	labtech electronics
4	DC motor	labtech electronics
5	AC & DC position control system	labtech electronics
6	stepper motor	labtech electronics
7	Digital simulation	labtech electronics
POWER ELECTRONICS LAB		
1	,SCR, TRIAC, MOSFET charactrestics	Indus engineering
2	MOSFET based step up & step down chopper	Indus engineering
3	Commutation Module	Indus engineering
4	DC chopper firing unit	Indus engineering

5	digital LCR meter	Indus engineering
6	Inductance decade box	Indus engineering
7	Single phase controlled converter	power lab instruments
8	IGBT based 1phase & 3Phase Inverter	power lab instruments
9	30MHz CRO	power lab instruments
10	DSO 25MHz	power lab instruments
11	Capacitance Decade box	VI micro systems

ELECTRICAL MACHINES LAB		
1	Dc compound machine	RAMSONS& SONS
2	Transformer 3KVA	RAMSONS& SONS
3	Dc shunt machine	RAMSONS& SONS
4	Dc compound motor 3KW	RAMSONS& SONS
5	Dc shunt machine 5HP	RAMSONS& SONS
6	Auto syn motor	RAMSONS& SONS
7	DC compound motor 4KW	RAMSONS& SONS
8	Base plate & coupling	RAMSONS& SONS
9	DC series motor	RAMSONS& SONS
10	Dc shunt machine 2.2KW	RAMSONS& SONS
11	SQ IND motor	RAMSONS& SONS
12	DC source Rectifier	RAMSONS& SONS
13	Meters (volt, amp,walt)	MECO
14	Meters (volt, amp,walt)	MECO
15	Shunt motor with loading Arrangements	RAMSONS& SONS
16	Digital Tachometer	RAMSONS& SONS
17	DC shunt motor Whole Arrangements	EMC
18	DC shunt motor Whole Arrangements	EMC
19	Stator resistance starter	EMC
20	Three phase auto transformer	EMC
21	Slip ring Induction Motor	RAMSONS& SONS
22	Loadind arrangements and starter for AC machine with Starter	RAMSONS& SONS
23	MC & MI meters	SUPREME
24	DC & AC motors with starter and whole arrangements	RAMSONS& SONS
25	DC & AC generators with starter and whole arrangements	RAMSONS& SONS
26	Transformer 1KVA & 2KVA	RAMSONS& SONS
27	MC & MI& Power factor meters	AE

28	Rheostats diff ranges	ALPHA
29	Three phase inductive load LPF and UPF waltmeters	SUPREME
30	PV Emulator	Techshine