



IFET

College of Engineering

(A Unit of Indo French Educational Trust)

An Autonomous Institution

Approved by AICTE, Permanently Affiliated to Anna University
Accredited by NAAC & NBA, Registered under Section 2(f) & 12 (B) of UGC Act - 1956
Recognized Research Centre of Anna University

IFET Nagar, Gangarampalayam PO, Villupuram- 605 108.

ACCREDITED
NAAC

NBA
ACCREDITED
COURSES

CRITERION IV - INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

DECLARATION

This is to certify that the institution has adequate infrastructure and physical facilities for teaching-learning activities during the academic year 2020-2021. The institution has 43 classrooms, 3 seminar halls, Board room, 34 laboratories and sufficient computing equipments for each department.

The photos of the infrastructure, area details and computing equipments of the institution are given as additional proof/information.

CRITERION INCHARGE

IQAC COORDINATOR

PRINCIPAL

Dr.G. MAHENDRAN, B.E.,M.Tech.,Ph.D.
PRINCIPAL,
IFET College of Engineering,
(An Autonomous Institution)
IFET Nagar, GANGARAMPALAYAM,
Villupuram District. 605 108.



4.1.1 The Institution has adequate infrastructure and physical facilities for teaching-learning

The total site area of IFET College of Engineering (IFETCE) is 14.919 acres with a built-up area of 3,32,706.82 Sq.ft. The details of the same are listed below.

Sl.NO	BUILDING NAME	TOTAL AREA (Sq.ft)	
1	MAIN BUILDING		
	GROUND FLOOR	25490.00	
	FIRST FLOOR	23672.00	
	SECOND FLOOR	20928.00	
	THIRD FLOOR	19114.00	
	2	OAT	807.00
	3	POWER HOUSE	
	GROUND FLOOR	1733.41	
	FIRST FLOOR	1733.41	
4	TOILET	614.00	
5	SEMINAR HALL		
	GROUND FLOOR	5491.00	
	FIRST FLOOR	5491.00	
6	CLASS ROOM BLOCK		
	GROUND FLOOR	19473.00	
	FIRST FLOOR	18686.00	
	SECOND FLOOR	18686.00	
	THIRD FLOOR	18686.00	
	7	LIBRARY BUILDING	
	GROUND FLOOR	6571.00	
	FIRST FLOOR	6571.00	
	SECOND FLOOR	6571.00	
8	WORKSHOP BLOCK		
	GROUND FLOOR	21692.00	
9	GIRLS DINNING HALL		
	GROUND FLOOR	6854.00	



SL.NO	BUILDING NAME	TOTAL AREA (Sq.ft)
10	NEW WORKSHOP	
	GROUND FLOOR	6554.00
11	HOSTEL BLOCK (LADIES)	
	GROUND FLOOR	9319.00
	FIRST FLOOR	8970.00
	SECOND FLOOR	8970.00
12	MCA BLOCK	
	GROUND FLOOR	8945.00
13	FIRST FLOOR	8421.00
	SECOND FLOOR	8421.00
14	KITCHEN CUM DINNING	
	GROUND FLOOR	4439.00
	FIRST FLOOR	4252.00
15	HOSTEL BLOCK (GENTS)	
	GROUND FLOOR	10516.00
	FIRST FLOOR	10337.00
	SECOND FLOOR	10337.00
16	CANTEEN	
	GROUND FLOOR	2000.00
17	COMMON BLOCK	
	GROUND FLOOR	2058.00
18	R.O. PLANT	201.00
19	GAS ROOM	103.00
	TOTAL BUILDUP AREA	332706.82
	TOTAL SITE AREA 14.919 ACRES	

4.1.1 - The Institutions computing equipments for each department is listed below:

CIVIL DEPARTMENT		
S.No	Particulars	Area (Sq.m)
1	Strength of Materials Laboratory	200
	Concrete and Highway Engineering Laboratory	200
2	Fluids mechanics and machinery Laboratory	200
3	CADD Laboratory	200
4	Survey laboratory	200
5	Soil mechanics Laboratory	200
6	Environmental Engineering laboratory	200
Total Carpet Area (Sq.m)		1400

Equipment's :

SOIL MECHANICS LAB

Equipment Type	Name of particulars	Number of Quantity
Soil Testing equipment	Sieve Set	9
Soil Testing equipment	Vane Shear Appartaus	1
Soil Testing equipment	Direct shear apparatus	1
Soil Testing equipment	Triaxial shear apparatus	1
Soil Testing equipment	CBR apparatus	1
Soil Testing equipment	Pycnometer	4
Soil Testing equipment	Field density(sand pouring method)	2
Soil Testing equipment	Field density(core cutter method)	2
Weighing equipment	Weighing machine	2
Soil Testing equipment	Permeability apparatus	1
Soil Testing equipment	Proctor compaction apparatus	2
Temperature checking equipment	Thermometer	4
Soil Testing equipment	Three gang consolidation	1
Soil Testing equipment	Hydrometer	2
Soil Testing equipment	Shrinkage limit apparatus	3
Soil Testing equipment	Plastic & Liquid limit apparatus	2
		2



Hydraulic Engineering Laboratory

Equipment Type	Name of particulars	Number of Quantity
Hydraulic testing Machinery	Calculation Of Metacentric Height Water Tank Ship Model With Accessories	1
Hydraulic testing Machinery	Bernoullis Theorem Apparatus	1
Hydraulic testing Machinery	Pitot Tube Test	1
Hydraulic testing Machinery	Orifice Meter Apparatus	1
Hydraulic testing Machinery	Venturi Meter Apparatus	1
Hydraulic testing Machinery	Pipe Friction Apparatus	1
Hydraulic testing Machinery	Losses Pipe Apparatus	1
Hydraulic testing Machinery	Orifice And Mouthpiece Apparatus	1
Hydraulic testing Machinery	“V” Notch And Rectangular Notch	1
Hydraulic testing Machinery	Reciprocating Pump Set Test Rig	1
Hydraulic testing Machinery	Centrifugal Pump Test Rig	1
Hydraulic testing Machinery	Gear (Oil) Pump Test Rig	1
Hydraulic testing Machinery	Jet Pump Test Rig	1
Hydraulic testing Machinery	Submersible Pump Test Rig	1
Hydraulic testing Machinery	Francis Turbine Test Rig	1
Hydraulic testing Machinery	Pelton Wheel Turbine Test Rig	1
Hydraulic testing Machinery	Keplan Turbine Test Rig	1
Hydraulic testing Machinery	Multistage Centrifugal Pump Test Rig	1
Hydraulic testing Machinery	Hydraulic Flume Apparatus	1



STRENGTH OF MATERIALS LABORATORY

Equipment Type	Name of particulars	Number of Quantity
Material testing apparatus	Beam deflection test apparatus	1
Material testing apparatus	Extensometer	1
Material testing apparatus	Compressometer	1
Material testing apparatus	Dial gauges	2
Material testing apparatus	Le Chatelier's apparatus	2
Material testing apparatus	Vicat's apparatus	2
Molding Equipment	Mortar cube moulds	10

SURVEYING LABORATORY

Equipment Type	Name of particulars	Number of Quantity
Surveying Equipment	Survey chain 30m	1
Surveying Equipment	Vernier Transit Theodolite	6
Surveying Equipment	Dumpy level	7
Surveying Equipment	Pocket Stereo Scope	2
Surveying Equipment	Ranging rod	24
Surveying Equipment	Leveling staff	8
Surveying Equipment	Wooden cross staff	8
Surveying Equipment	Survey chain 20m	8
Surveying Equipment	Fiber glass tape 30m	4
Surveying Equipment	Fiber glass tape 20m	4
Surveying Equipment	Steel arrows	55
Surveying Equipment	Prismatic compass 5" dia	10
Surveying Equipment	Plane table board [wooden]	8
Surveying Equipment	Sokkia electronic total station	3
Surveying Equipment	Surveyor compass	2
Surveying Equipment	GPS Etrex-10	3



ENVIRONMENTAL ENGINEERING LABORATORY

Equipment Type	Name of particulars	Number of Quantity
Water and Wastewater testing equipment	Hot Air oven	1
Water and Wastewater testing equipment	Water bath	1
Water and Wastewater testing equipment	COD apparatus	1
Water and Wastewater testing equipment	Kjeldhal apparatus	1
Water and Wastewater testing equipment	Heating mantle	5
Water and Wastewater testing equipment	Calori meter	1
Water and Wastewater testing equipment	Digital stop watch	5
Water and Wastewater testing equipment	Electronic weighing machine	1
Water and Wastewater testing equipment	Conductivity meter	1
Water and Wastewater testing equipment	pH meter	1
Water and Wastewater testing equipment	Turbidity meter	1
Water and Wastewater testing equipment	BOD incubator	1
Water and Wastewater testing equipment	Muffle furnace	1
Water and Wastewater testing equipment	Magnetic stirrer	5
Water and Wastewater testing equipment	Vacuum Desiccators	1
Water and Wastewater testing equipment	Spectrophotometer	1
Water and Wastewater testing equipment	Autoclave	1
Water and Wastewater testing equipment	Flocculator	1
Water and Wastewater testing	Filtration assembly	



equipment		1
Water and Wastewater testing equipment	Choloroscope	1
Water and Wastewater testing equipment	Oxygen analyzer	1
Water and Wastewater testing equipment	Flame photometer	1
Water and Wastewater testing equipment	Ion selective Electrode	1

Equipment Type	Name of particulars	Number of Quantity
Aggregate testing Machinery	Tile flexural strength testing machine	1
Aggregate testing Machinery	Ductility testing machine	1
Aggregate testing Machinery	Los Angeles abrasion testing machine	1
Aggregate testing Machinery	Vee bee consistometer	1
Aggregate testing Machinery	Flow table	1
Aggregate testing Machinery	Marshall testing machine	1
Aggregate testing Machinery	Concrete mixer	1
Aggregate testing Machinery	Vibrating table	1
Aggregate testing Machinery	Blains apparatus	1
Aggregate testing Machinery	Aggregate impact test	1
Aggregate testing Machinery	Slump test apparatus	3
Aggregate testing Machinery	Bitumen extractor and hand operator	1
Aggregate testing Machinery	Hot air oven	1
Aggregate testing Machinery	Compaction factor	1
Aggregate testing Machinery	Ring & ball apparatus	1
Aggregate testing Machinery	Viscometer	1



Computer Science Engineering Department

S.No	Particulars	Area (Sq.m)
1	Software Development Lab	72
2	Software Engineering Lab	72
3	Operating System Lab	81
4	Internet Programming Lab	81
5	Computer Programming Lab	81
Total Carpet Area (Sq.m)		387

Equipment's:

For CSE Department:

Venue: Software Development Lab

S.no	Name of the Equipment	Number of Quantity
1	Processor Core I3 With INTEL DQ87 PG Mother board RAM: 4 GB DDR3 Tracent HDD:500 GB SATA Keyboard: Logitech Black Mouse: Logitech Optical Black Ethernet:10/100 Mbps with SBport	34
2	TVS Dotmatrix Printer	2
3	Hp Laserjet 1020 plus	1
4	D-Link 24 Port Switch	2

Venue: Software Engineering Lab

S.no	Name of the Equipment	Number of Quantity
1	Processor Core I3 With INTEL DH61WW Mother board RAM: 8 GB DDR3 Tracent HDD:500 GB SATA Keyboard: Logitech Black Mouse: Logitech Optical Black Ethernet:10/100 Mbps with SBport	34
2	TVS Dotmatrix Printer	2
3	Hp Laserjet 1020 plus	1
4	D-Link 24 Port Switch	2



Venue: Operating System Lab

S.no	Name of the Equipment	Number of Quantity
1	Processor Pentium with Core 2Duo @ 2.2GHz With NVIDA mother board RAM: 1 GB DDR2 RAM HDD:160GB Keyboard: TVS Keyboard Mouse: Logitech Optical Mouse Ethernet:10/100 Mbps with USBport	34
2	Processor Core I3 With INTEL DH61WW Mother board RAM: 4 GB DDR3 Tracent HDD:500 GB SATA Keyboard: Logitec Black Mouse: Logitech Optical Black Ethernet:10/100 Mbps with SBport	2
4	TVS Dotmatrix Printer	2
5	Hp Laserjet 1020 plus	1
6	D-Link 24 Port Switch	2

Venue: Internet Programming Lab

S.no	Name of the Equipment	Number of Quantity
1	Processor Pentium with Core 2Duo @ 2.93GHz With INTEL DG4IRQ mother board RAM: 2 GB Hynix DDR2 HDD:250 GB SATA Keyboard: Logitec Black Mouse: Logitech Optical Black Ethernet:10/100 Mbps with USBport	30
2	Processor Core I3 With INTEL DH61WW Mother board RAM: 4 GB DDR3 Tracent HDD:500 GB SATA Keyboard: Logitec Black Mouse: Logitech Optical Black Ethernet:10/100 Mbps with SBport	2
4	TVS Dotmatrix Printer	2
5	Hp Laserjet 1020 plus	1



6	D-Link 24 Port Switch	2
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Venue: Computer Programming Lab

S.no	Name of the Equipment	Number of Quantity
1	Processor Core I5 With Asus Prime H410m-cs Mother board RAM: 16 GB DDR4 EVM HDD:256 GB SSD EVM Keyboard: Logitech Black Mouse: Logitech Optical Black Ethernet:100/1000 Mbps with Sbport LG 18.5 Monitor	32
2	TVS Dotmatrix Printer	2
3	Hp Laserjet 1020 plus	1
4	D-Link 24 Port Switch	2

Electronics & Communication Engineering Department:

S.NO	Particulars	Area (Sq.m)
1	Communication Systems laboratory	66
2	VLSI Design laboratory	66
3	Networking & Digital Signal Processing laboratory	66
4	Microprocessor and Microcontroller laboratory	66
5	Digital Electronics laboratory	66
6	Advanced Electronic System Design Laboratory	66
Total Carpet Area (Sq.m)		396

Equipment

:

Communication Systems Lab

S.NO	NAME OF THE EQUIPMENT	QTY
1	Antenna trainer kit	1 set
	Synthesised RF Transmitter	
	Synthesised RF Receiver	
	Stepper motor	
	Monopole antenna	
	Yagi uda antenna	
	Dipole antenna	
	Loop antenna	



	RS 232 cable	
	Power cable	
	Antenna trainer CD	
	Two Element Array Antenna	
	Dipole antenna (TRX)	
	Transmitting Stand	
	N to BNC adapter	
	SMA to SMA	
	N to N cable	
	RF Circuit Trainer	
	BNC to SMA Cable	
	IF Amplifier (3)	
	Mixer (15)	
	RF Amplifier (8)	
	Low Pass Filter (2,4) Module	
	High Pass Filter (4,9) Module	
	Band Pass Filter (10,6) Module	
	Crystal Oscillator (1)	
	Inductance Coil	
	SMA Cable(10m)	
	Drill bit (3.5mm)	
	Drill bit (4.5mm)	
	Drill bit (5.5mm)	
	Drill bit (5mm)	
2	Antenuator Module	1 set
	Hardware Lock	
	Band Pass Filter (PCB assembled) C49	
	BPF (PCB Assembled, C32)	
	BPF (Bare PCB)	
	Attenuator (PCB Assembled)	
	Clapp Oscillator (44 PCB)	
	Colpitts Oscillator (52 PCB)	
	Bread Board	
	Butler Oscillator component set	
	Crystal Oscillator Component Set	
	Hartely Oscillator Component Set	
	Low Pass Filter (PCB Assembled, C60)	
	Attenuator (Bare PCB)	
	Low Pass Filter (PCB Assembled, B52)	
	Low Pass Filter (PCB Bare)	



	Butler Oscillator (PCB, 11)	
	Hartely Oscillator (PCB, 44)	
	Colpitts Oscillator (PCB, 53)	
	12V DC Adapter	
3	RF Design Software	1
4	Spectrum Analyser	1
5	CRO 100MHz (Make: Scientific, Model: SM1001)	1
6	RF Source (VRFT - 03A)	2
	BNC to SMA Cable	
	N to BNC adapter	
	PC Power Card	
	RF Signal Source and Detector (9, 48)	
7	Oscilloscope(DSO)-20MHZ	1
8	Spectrum Analyser	1
9	Oscilloscope - 20MHZ	2
10	CRO - 60 MHz	1
11	CRO 100 MHz (Model 1001)	1
12	CRO 30 MHz	2
13	Personal Computers	6
14	CRO 30 MHz	6
15	Adaptive Delda Modulation & Demodulation Kit	1
16	CRO(30 MHz)	4
17	CRO(30 Mhz)	10
18	Digital IC Tester	3

DSP Lab

1	Computer Systems	36
3	ADSP 2181 ISA Bus	1
4	DSP Kit	1
5	MATLAB (S/W)-5 USER	1
6	LAN Trainer Kit with Serial Parallel Comm.	1
7	Networking study s/w	1
8	LAN Trainer Kit with Serial Parallel Comm.(VILAN 01)	2
9	Wireless LAN	1

ECED Lab

1	CRO (30MHZ)	15
2	Personal Computers	6



ME - A.E Lab

1	DSP Floating Point Processor Kit(VSK 6713)	2
2	VSK 6713 DSP TRAINER KIT (DSP stock reg)	1
3	IAR EMBEDDED WORKBENCH FOR 8051(1 USER)-TONGGLE-USB	1
4	SMART FUSION KIT (Model-A2F-EVAL-KIT-2)	1
5	CC2530-8051 BASED WSN EVALUTION SETUP	1
6	XILINX SPARTAN 6 FPGA TRAINER KIT	2
7	CADENCE SOFTWARE (6-USERS)	1
8	COMPUTER SYSTEMS	18

Microprocessor Lab

1	PC BASED TEMPERATURE CONTROL SYSTEM	1
2	COMPUTER BASED DATA ACQUISITION APPLICATION TRAINER	1
3	LVDT POSITION TRAINER	1
4	PENTIUM COMPUTER TRAINER	1
5	PRINTER TRAINER MODULE	1
6	COMPUTER SYSTEMS	6

Optical & Microwave Lab

1	Characteristics of Gunn Oscillator	
	Gunn Power Supply	1
	Gunn oscillator	1
	Pin modulator	1
	Isolator	1
	Variable attenuator	1
	Slotted section	1
	Frequency meter	1
	Detector mount	1
	Movable short	1
	Tunable probe	1
	Matched termination	1
	VSWR meter	1
	Wave guide stand -	4
	SS tuner	1
Cooling fan	1	
2	Determination of Guide Wavelength , Frequency measurement	



	Klystron Power Supply	1
	Klystron Mount	1
	Klystron Tube	1
	Isolator	1
	Variable attenuator	1
	Slotted section	1
	Frequency meter	1
	Detector mount	1
	Movable short	1
	Tunable probe	1
	Matched termination	1
	VSWR meter	1
	Wave guide stand -	4
	SS tuner	1
	Cooling fan	1
	Radiation Pattern of Horns , Paraboloids	
	Klystron Power Supply	1
	Klystrom Mount	1
	Klystron Tube	1
	Isolator	1
	Frequency meter	1
	Variable attenuator	1
	Radiation Pattern turn table	1
	Standard gain horn	2
	Deterctor mount	1
3	Cooling fan	1
	E-Plane Horn	1
	H-Plane Horn	1
	VSWR meter	1
	Wave guide stand -	7
	Slot Antenna - Bread wall	1
	Slot Antenna - Narrow wall	1
	Bends, Twist	1
	Parabolic disc	1
	Dielectric Antenna	1
	Fixed stand	1
4	Microwave Bench Setup(X band) MTI 1001	
	Klystron Power Supply	2
	Klystron Mount	2



	Klystron Tube	2
	Isolator	2
	Variable attenuator	2
	Slotted section	2
	Frequency meter	2
	Detector mount	2
	Movable short	2
	Tunable probe	2
	Matched termination	2
	VSWR meter	2
	Wave guide stand -	6
	SS tuner	2
	Cooling fan	2
	Microwave Bench Setup(X band)	MTI 1001
5	Klystron Power Supply	2
	Klystron Mount	2
	Klystron Tube	2
	Isolator	2
	Variable attenuator	2
	Slotted section	2
	Frequency meter	2
	Detector mount	2
	Movable short	2
	Tunable probe	2
	Matched termination	2
	VSWR meter	2
	Wave guide stand -	6
	SS tuner	2
	Cooling fan	2
6	Microwave Power Meter	2
7	MICROWAVE BENCH SETUP(X-BAND)	
	Klystron PowerSupply	1
	Klystron mount with Tube	1
	Isolator	1
	Varriable Attenuator	1
	Slotted section	1
	Frequency Meter	1
	Detectot mount	1
	Movable short	1



	Tunable Probe	1
	Matched Terminator	1
	VSWR Meter	1
	SS Tuner	1
	Cooling Fan	1
	Wave Guide stand	3
8	Optical Fiber Trainer	2
9	Hand Held Power Meter	1
10	Optical Fiber Trainer	2
11	Light source(850nm) - FOPS101	1
12	OTDR Software	1
13	FOTR-110-2Mhz Plastic fiber analog link	1
	FOTR-300-2Mbps multimode glass fibre link	1
	Fiber events	1
	LED module	1
	PD module	1
	LD module	1
	APD module	1
	OTDR Building block	1
	FORX200-M-5Mbps-Digital Receiver	1
	Multimode Glass fiber (500m)	1
	Special PCBs	1
	Microscope	1
	LD pointer	1
14	PD Module	1
15	FOPM 101 (Si Power Meter)	1
16	Fiber Optic Power Source	2
17	Output Power meter	2
18	Laser Driver (VLT-01)	1
	Receiver (VLR-01)	1
	Laser Source+Movable setup	1
	Cable (Laser Driver to source)	1
	Power supply	2
	Power supply cables	2
	Power Chord	2
	Single Mode Fiber Patch Chord	2
	Multi Mode Fiber Patch Chord	2
	Receiver Stand	1
	Fiber Coupling Stand	1
	Fiber Coupling Clamp	1



	BNC-BNC Cables	2
	NA Setup with Graph Sheet	1
	ST-ST adapter	1
	Tool Kit Box	1
19	Fiber Optic Communication Links	1
20	Fiber Optic Power Meter	2
21	Fiber Optic Power Source	1
22	Optical Fiber Trainer	3
	Gunn Oscillator (Bench Setup - 03) & Klystron Oscillator (Bench Setup - 02)	
	Solid state klystron power supply	2
	Klystron mount with klystron tube	2
	Pin modulator	3
	Isolator	6
	Frequency meter	2
	Variable attenuator	5
	Slotted section	4
	Tunable probe	4
	Detector mount	5
	Movable short	3
	Matched termination	4
	VSWR meter	5
	Wave guide stand -5 nos	25
	SS tuner	2
	Cooling fan	5
	Gunn power supply	3
	Mechanical turn table	1
	Standard gain horn	1
	E - Plane bend	1
	Pick up horn 2 nos	2
	E -sectional horn 2 nos	2
	Parabolic disc -8inch dia 2 nos	2
	Helical antenna	2
	Precision short	1
	Solid dielectric cell	1
	Liquid dielectric cell	1
	Phase shifter	1
	Fixed attenuator	3
	Magic Tee	1
	Directional Coupler	1



	Directional Coupler	1
	Directional Coupler	1
	T-Circulator	1
	Y-Circulator	2
	Klystron tube	2
	Gunn oscillator	3
	Magic Tee	1
	E Plane Tee	1
	H Plane Tee	1
23	J Band Microwave Components	
	Klystron Power supply	1
	klystron mount with tube	1
	Frequency Meter	1
	Variable Attenuator	1
	Slotted section	1
	Tunable probe	1
	Detector Mount	1
	VSWR Meter	1
	Movable shot	1
	Matched Terminator	1
	SS Tuner	1
	Waveguide Stand	5
	Cooling Fan	1
	BNC Cable	2
Crystal Diode IN23	1	

<u>VLSI Lab</u>		
1	Computer Systems	36
2	Xilinx Foundation ISE series Software	1
3	Tanner Software	1

<u>Digital Electronics Lab</u>		
1	Digital Function IC Tester	1
2	CRO Trainer 20MHZ	1
3	CRO 30MHZ	2
4	CRO 20MHZ	2
5	CRO 20MHZ	3
6	CRO 30MHZ	4
7	CRO 30MHZ	15



8	LCR Q Meter	1
9	Computer Systems	6
10	Programmable Logic controller	1
11	AM / FM Tranceiver	1SET
12	ORCAD Capture with PSPICE & Ckt Layout- 2 users (Model-10.0 version)	1
13	DC -DC Buck Boost Converter Kit	1
14	DC -DC Fly Back Converter Kit	1
15	DSP based system KIT(VSK 5416-TMS 320C5416 DSP Trainer kit-For ESD Lab)	1
16	Digital Storage Oscilloscope (100 Mhz)	2

ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

Venue: Power Electronics laboratory

S.no	Name of the Equipment	Number of Quantity
1.	Digital multimeter Make:MECO	6
2.	Digital multimeter Model:M3900 Make:Mastech SI.No.200304-11029,11126,200307-23638,23650,20010527547	5
3.	Digital multimeter Make: VARTECH-M3900 SI.No.20060965525,50,82,87,65673	5
4.	Linear IC trainer kit Model:VLICT ,SI.No.29	1
5.	FPGA main board (VVSI-01)	1
6.	CRO APLAB Make Dual trace Oscilloscope Model:3305, Range:20MHz,	6
7.	CRO SCIENTIFIC Make dual trace Oscilloscope Model:HM203, range:30MHz	2
8.	CRO SCIENTIFIC Make dual trace Oscilloscope Model:HM203, range:30MHz	2
9.	CRO SCIENTIFIC Make dual trace Oscilloscope Model:HM605-B, range:60MHz	1
10.	CRO APLAB Make Dual trace Oscilloscope Model:3802, Range:25MHz, SI.No.04500738	1
11.	CRO C.R.O 30MHz, Make:ATTEST,SI.No.20201085102071,2000,2082,2037,2026,2044,1658	7
12.	ADD Make Dual Power Suplly Rating:+/-30V,2A	2



13.	Dual power supply Rating: +/-30/0-2A ,Make:Mighty ,SI.No:2002-569,2002-570,2002-571,2002-572	4
14.	DC Regulated single variable power supply Rating:0-30V/0-2A make:Mighty	4
15.	DSP PWM testing unit	1
16.	3 phase IPM based power module	1
17.	TMS 320F240 based AC /DC motor control trainer	1
18.	89C51 based MOSFET / IGBT Chopper	1
19.	DAC Add on card	1
20.	Three phase Isolation transformer	1
21.	Single phase Isolation Transformer	3
22.	1 HP three phase Induction motor with D.C generator load	1
23.	1 HP 1 Φ Ac Induction motor	1
24.	180 V FHP PMDC Motor	1
25.	1 HP Separately excited DC motor	2
26.	1HP DC motor with dc generator	1
27.	Analog IC Trainer kit with Digital Meter inbuild dual RPS ZIF Model:9003	1
28.	Traffic light controller kit Interface with 8085 kit	1
29.	Decade Capacitance Box Rating:1000pf to 11.11 μ f Make:Systems 4dial	2
30.	Inductive load	3
31.	Function Generator 200KHz Make:Aplab Model:2008	4
32.	Function Generator Rating:1MHz Make:Aplab Model:FGIM	4
33.	Function Generator Digital Function Generator	1
34.	Function Generator Digital Function Generator 3MHz	7
35.	Digital Lab trainer Make:Mighty 10Bit Version	1
36.	Digital/Logic IC trainer (rev:2)523	1
37.	Op-amp trainer kit	1
38.	Digital/Logic IC trainer (rev:3) SI.No:689,696,698,686,700	5
39.	Digital IC trainer kit	1
40.	IC trainer kit Model:4001 with ZIFsocket Breadboard and 2mm Terminal	7



41.	Single Phase Series Inverter	1
42.	UJT Pulse triggering circuit for SCR	1
43.	Single Phase Cyclo Converter Power circuit	1
44.	Speed Control of DC motor using Chopper device	1
45.	Thyristerised speed control of three phase induction motor 1.power circuit 2.Triggering circuit	1
46.	Single Phase Cyclo Converter Firing circuit	1
47.	AC Solid state relay using OPTO Coupler isolation	1
48.	SCR DC Voltage & Current Commutated Chopper	1
49.	IGBT PWM Inverter 1.IGBT Module 2.PWM Inverter control Module 3.Rheostat 220ohm ,1A 4.Inductive load 5.230V/24V Transformer	
50.	SCR parallel inverter 1.230V/24V transformer 2.Inverting Transformer 3.Rheostat 50Ohm ,4A	1
51.	IGBT Chopper 1.IGBT module 2.Chopper control circuitry module 3.230V/24V transformer 4.Rheostat 50ohm ,1A	1
52.	AC phase controller using SCR, TRIAC & DIAC	1
53.	Universal motor	1
54.	SCR, MOSFET, IGBT & TRIAC static characteristics module (PEC16MIA) -3Multimeter	1
55.	AC phase controller using SCR, TRIAC & DIAC (ITB PEC14M22)	1
56.	Single phase bridge converter with R,RL Load (PEC14M14FW) 1.100mH Inductive load	1
57.	Single phase Parallel Inverter (ITB PEC14M7) 1.Inverting Transformer	1
58.	Power Supply 0-300V,1A	2



59.	Commutated Chopper circuit Module (PEC14M14CH#1)	1
60.	IGBT based PWM inverter(3ph) 230V0.5HP motor V/F Contorl method of AC drive application	1
61.	IGBT Based high switching frequency chopper module with built in controller (VPET 208B)	1
62.	Resonant DC-DC converter module with built in power supply and controller (VPET 315)	1
63.	SCR and TRIAC based 1 Φ AC phase controller along with Lamp or Rheostat load kit (PEC 14 M 14 AC #2)	2
64.	SCR based V/I commutated chopper module with relevant firing module (PEC14M14CH#1)	2
65.	IGBT based 1 Φ PWM Inverter module, IGBT based 3 Φ PWM Inverter module (VPET 106A)and (PEC16HV2B)	1
66.	LCR Q bridge	1

Venue: Control & Instrumentation laboratory

S.no	Name of the Equipment	Number of Quantit y
1.	LVDT trainer kit make:UNIQUE	1
2.	Thermocouple instrumentation trainer	1
3.	Photo electric pick up instrumentation kit	1
4.	AC servo motor speed torque characteristics	1
5.	DC position control kit	1
6.	Synchro transmitter and receiver	1
7.	P, PI, PID controller (Prosses contorl Simulator)	1
8.	DC stepper motor kit	1
9.	Pressure measurement trainer	1
10.	Torque measurement module	1
11.	A/D&D/A CONVERTER trainer	2
12.	Instrumentation amplifier module	1
13.	DC servo motor controller	1
14.	Wheatstone bridge Make:OXFORD	1
15.	Anderson bridge	1
16.	Schering bridge	1
17.	Maxwell's inductance bridge	1
18.	Anderson bridge	1



19.	Maxwell's inductance bridge	1
20.	Wheatstone bridge	1
21.	Kelvin's bridge	1

Venue: Simulation laboratory

S.no	Name of the Equipment	Number of Quantity
1.	MATLAB MATLAB CD kit for PC& UNIX ,Release 14	5Users
2.	SIMULINK SIMULINK DOC KIT S.No.SLDOC5R	1
3.	Signal processing tool box S.no.SGDOC4	1
4.	Filter design tool box S.no.QZDOC	1
5.	Control system tool box S.no.CTDOC5	1
6.	AU Power lab with 2nos CD & 1nos Hardware lock	30 Users
7.	C-Cross compiler for 89C51 (R-kit L51)	1
8.	TVSE MSP-345Dot matrix printer Speci:136Col, 300cps	1
9.	TVS MSP 250 champion printer S.No.20044916394(staffroom) S.No.20044815849(PSS lab)	2
10.	TVS MSP 250 champion printer S.No.GBW2PD010401	1

Venue: Electrical Machines Laboratory

S.no	Name of the Equipment	Number of Quantity
.	DC shunt motor 3HP,230V,1500rpm with brake drum loading arrangement and three point starter Make :BEES(S.no.032&035)	2
.	DC series motor 3HP,230V,1500rpm with brake drum loading arrangement and two point starter Make:BEES (SI.No.034)	1
.	DC compound motor 3HP, 230V,1500rpm with brake drum loading arrangement and four point starter Make:BEES(SI.No.033)	1



	DC compound motor 3HP,220V,1500rpm coupled with compound generator 3HP,220V,1500rpm with base plate and flexible coupling Make : EMC(SI.no.4967)	1
	DC shunt motor 3HP,230V,1500rpm coupled with DC shunt generator 2.2KW,230V,1500rpm (SI.No.036&038)	1
	DC shunt motor 5HP coupled with salient pole alternator	1
	DC compound motor 5HP coupled with 3KW compound generator	1
	DC shunt motor 3HP coupled with 2KW DC series generator(Make:BENN)	1
	DC shunt motor 5HP,230V,1500rpm coupled with three phase alternator 3KVA,400V Make:BENN(SI.No;218.2K04&7258.2K04 Alternator (SI.No.2202.K04&7259.2K04	2
10.	5HP,3Phase,1440rpm Squirrel cage induction motor (Make: Premier SI.No.34833)coupled with DC shunt generator 3KW,230V,1500rpm (Make;BENN,SI.No:61525.2K04)	1
11.	Auto Synchronous motor 5HP,415v,1500 rpm (Make:BENN,SI.No.143.2K04) Coupled with D.C Shunt motor 5HP,220V,1500rpm(Make;BENN,SI.No.7256.2K04	1
12.	Slip ring induction motor 5HP,3 ϕ ,1440rpm,440V with brake drum loading arrangement Make: BENN(SI.No.131.2K04)	1
13.	Squirrel cage induction motor 5HP,3 ϕ , 1400rpmwith break drum loading arrangement and fully automatic Star Delta starter Make:Crompton,SI.No.1732J/YB8448	1
14.	Squirrel cage induction motor 3HP, 3 ϕ ,415v, 1440rpm with break drum loading arrangement and DOL starter Make: Crompton, SI.No.1632JLSUE/YF8983	1
15.	Single phase capacitor start Induction motor 1HP, 1440 rpm, 230V with brake drum loading arrangement	1
16.	Single phase 1KVA,230/230V Transformer	3
17.	Single phase 2KVA,230V/155-199V transformer	4



18.	Single phase 2KVA,230V/115-230V transformer Make:EMC SI.No:4959,4960,4961	3
19.	Three phase 5KVA 440/220-440V transformer	2
20.	Scott connection transformer 2KVA Capacity 230/400V with tapings at 50% and 86.6%	1
21.	Single phase variac 230V/(0-270V),8A	2
22.	Single phase variac 230V/(0-270V),20A	2
23.	Single phase variac 230V/(0-270V),20A Make:EMC	3
24.	Three phase variac 415V/(0-470V),15A Sl.no.10010,40612	2
25.	3 Φ Box type dimmer stat 15 Amps Capacity Make :ATE SI.No.378	1
26.	Rheostat Tubular Rheostat 50 Ω ,5A Make:EMC SI.No.4748,4749,4750,4751	4
27.	Rheostat Tubular Rheostat 50 Ω ,5A Make:AE	2
28.	Rheostat Tubular Rheostat 2000 Ω ,0.5A Make:AE	3
29.	Rheostat 360 Ω ,1A	5
30.	Rheostat 50 Ω ,3.5A	3
31.	Water loading rheostat	1
32.	RL load Make:AE	1
33.	1 \emptyset Loading rheostat 5KW,230V Make:EMC SI.No.003	1
34.	1 \emptyset Loading rheostat 4KW,230V	1
35.	3 \emptyset Loading rheostat 5KW,440V Make:EMC,SI.No:004,005	2
36.	3 \emptyset Loading rheostat 5KW,440V loding in 10 steps Make:AE	1
37.	Three phase variable Inductive load,10Amps Make:EMC,SI.No.4757	1
38.	Three phase variable Inductive load,10Amps Make:AE	1
39.	Loading capacitor 0-10A, 400V,3 Φ ,adjust in ten steps Make:AE	1
40.	MC Volt meter(0-30/60)V Make:MECO SI.No.65490,65491,65493,65366,65615,64723	6
41.	MI Voltmeter(0-150/300)V Make:EMI SI.No.9318908,9,10,11,9129948,45,46,47	8
42.	MI Voltmeter(0-50/100)V Make:EMI SI.No.9318916,9129991,9129992	3



43.	MI Voltmeter (0-15/30)V Make:MECO SI.No.97282,97946	2
44.	MI Voltmeter (0-15/30)V Make:MECO SI.No.23604,23609,23611	3
45.	MI Ammeter(0-10/20)A Make:MECO SI.No.23427,24762,24765,24775,24854,24855	6
46.	MI Ammeter(0-5/10)A Make:EMI SI.No.9318901,03,04,05,9129981	5
47.	MI Ammeter(0-1/2)A Make:EIC SI.No.9318105,08,10,19	4
48.	MI Ammeter(0-2.5/5) Make:AE	2
49.	1Ø LPF Wattmeter (150/300/600V,2.5/5A) Make:MECO SI.No.5677/04,5675/04,5682/04,5678/04	4
0.	Analog tachometer 0-10,000	5
1.	Synchronising panel Make: AE	2
2.	DC Rectifier 100A,22.5KVA,Server Controlled	1
3.	Transformer Oil testing kit ,60kv, manual Operated Make: AE	1
4.	Winding Study motor Make:AE	1
5.	M15A SP 240V Main Switch Box	5
6.	Energy meter 1Ø	5

IT Department:

S.No	Particulars	Area (Sq.m)
1	Networks Lab	81
2	Advanced Programming Lab	81
Total Carpet Area (Sq.m)		162

Equipments:

For IT Department:

Venue: Networks Lab

S.no	Name of the Equipment	Number of Quantity
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1	Processor Core I3 With INTEL DH55 TC Mother board RAM: 4 GB DDR3 Tracent HDD:500 GB SATA Keyboard: Logitech Black Mouse: Logitech Optical Black Ethernet:10/100 Mbps with Sbport 18.5 Samsung monitor	20
2	Processor Pentium with Core 2Duo @ 2.2GHz With NVIDA mother board RAM: 1 GB DDR2 RAM HDD:160GB Keyboard: TVS Keyboard Mouse: Logitech Optical Mouse Ethernet:10/100 Mbps with USBport	14
3	TVS Dotmatrix Printer	2
4	HpLaserjet 1020 plus	1
5	D-Link 24 Port Switch	2

Venue: Advanced Programming Lab

S.no	Name of the Equipment	Number of Quantity
1	Processor Core I3 With INTEL DH55TC Mother board RAM: 4 GB DDR3 Tracent HDD:500 GB SATA	34



	Keyboard: Logitech Black Mouse: Logitech Optical Black Ethernet:10/100 Mbps with Sbport 19 inch Samsung Monitor	
2	TVS Dotmatrix Printer	2
3	HpLaserjet 1020 plus	1
4	D-Link 24 Port Switch	2

Details of equipment procured:

For IT Department:

Venue: Networks Lab

Equipment Type	Name of the Equipment	Number of Quantity
Hardware	Battery	20
	HpLaserjet 1020 plus	1

Venue: Advanced Programming Lab

Equipment Type	Name of the Equipment	Number of Quantity
Hardware	UPS(1) + Battery	20
	HpLaserjet 1020 plus	1

Mechanical Engineering Department

S.No	Particulars	Area (Sq.m)
1	Mechatronics Laboratory	66
2	Dynamics Laboratory	66
3	CAD/CAM Laboratory	66
4	Metrology laboratory	66
5	Thermal laboratory	66
6	Strength of Materials laboratory	66
7	Manufacturing Technology laboratory	66
Total Carpet Area (Sq.m)		462

Equipment:

For Mechanical Engineering Department:

Name of particulars	Quantity
Dynamics Laboratory	



Lathe tool dynamometer	1
Drill tool dynamometer	1
Temperature measurement set	1
Flow measuring devices (rotometer)	1
Speed measurement setup	1
Stroboscope	1
Force measuring devices	1
Strain gauge	1
LVDT with amplifier and indicators	1
Dynamic balancing of rotor setup	1
Longitudinal vibration of spring mass system	1
Whirling shaft	1
Proving ring	1
Measurement of pressure tester	1
Differential unit	1
Gear box	1
Universal joint	1
Bevel gear box	1
Digital tachometer	2
Vibration analyser	1
Kinematic of 4 bar mechanism	1
Motorized gyroscope	1
Cam arrangement	1
Governor	1
Vibrating table	1
Balancing of reciprocating mass	1
Multidegree freedom system	1
Vibration measurement setup	1
Stop watch	4



Dial gauge with magnetic stand	2
Turn table Apparatus	1
Metrology and Measurements laboratory	
Micrometer (0-25mm)	2
Micrometer (25-50mm)	2
Micrometer (50-75mm)	2
Vernier Calliper(150 mm)	2
Vernier Calliper(200 mm)	2
Vernier Calliper(300 mm)	1
Vernier Height Gauge (300 mm)	1
Vernier Height Gauge (450 mm)	1
Depth Micrometer	1
Slip Gauge Set	2
Gear Tooth Vernier	1
Digmatic Calliper	1
Vernier Depth Gauge	1
Dial gauge with stand	1
Bevel Protractor	1
Radius Feeler Gauge	1
Dial Bore Gauge	2
Screw Thread Micrometre	1
Plug Gauge (10mm & 20mm)	1
Sine Bar (150mm & 200mm)	1
Precision try square	1
V-block with big clamp	1
Angle plate	1
Surface plate	2
Profile projector	1
Pneumatic comparator	1
Auto collimator	1
Spirit level	1
Wire gauge	1



Dial calliper	1
Magnetic stand	2
Dial indicator	2
Tool makers microscope	1
Floating carriage micrometer	1
Torque measurement setup	1
Vibration measurement	1
Surface roughness tester	1
Telescopic Gauge	1
Coordinate Measuring Machine	1
Thermal Engineering Laboratory	
Fin heat Transfer Apparatus with computer simulation and data acquisition system	1
Forced convection Apparatus with computer simulation and data acquisition system	1
MPI Experimental arrangement	1
4-Stroke 3 Cylinder petrol engine trainer kit	1
Stefan-Boltzmann apparatus	1
Heat transfer in forced convection description	1
Heat transfer in natural convection	1
Emissivity measurement apparatus	1
Heat transfer through composite walls	1
Parallel flow counter flow heat exchanger	1



Thermal conductivity of insulating material(powder) apparatus	1
Thermal conductivity of guarded hot plate	1
Heat transfer from a pin fin apparatus	1
Mini cooling tower test rig	1
Heat transfer through lagged pipe apparatus	1
HC refrigeration test rig	1
PINSEY martens flash point apparatus	1
Saybolt viscometer	1
Redwood viscometer- imc-433c electric heated model with voltage	1
Air conditioning test rig	1
Bomb calorimeter Apparatus-IMC-557	1
Orsat gas apparatus	1
Two stroke single cylinder petrol Engine	1
Experimental 4 stroke (multi) cylinder petrol engine with hydraulic dynamometer test rig	1
Diesel fired steam Boiler test rig	1
Steam turbine test rig	1
Boiler accessories	1
Strength of Materials Laboratory	
Supply of 7 in 1 Dynamic computerised servo controlled fatigue testing machine	1
Universal testing machine	1
Impact testing machine	1
Rockwell hardness tester	1



Brinell hardness tester	1
Spring testing machine	1
Compression testing machine	1
Fatigue testing machine	1
Vernier calliper	1
Screw gauge	1
Slotted weight	1
Magnetic stand	1
Torsion testing machine	1
Wood testing machine	1
Computerised universal testing machine	1
Mechatronics Laboratory	
Intel Computer Combo Kit	3
Wipro I value P-IV	4
Microsoft Windows XP, Samsung Monitor, Mouse, Keyboard	4
Hydraulic simulation software	1
Pneumatic Simulation software	1
Data Acquisition System	1
PLC/RTA hydraulic linear actuation system trainer	1
Electro Pneumatic Trainer kit	1
Electro pneumatic trainer kit with PLC	1
Servo controller for open and closed loop system	1
PID controller with interfacing	1
Temperature control system	1
DC motor speed control module	1
Micro controller trainer	1
Stepper motor	1



Luminous UPS (600w)	10
Air compressor	1
CAD/CAM Laboratory	
INTEL DH 61 WWB3 MBD INTEL CORE i3 3.02 GHz ROM 4GB,	10
INTEL CORE II DUO INTEL DGH 41 RQ 2GB DDR2-250 GBHDD	1
INTEL DH61WWB3,MBD INTEL CORE i3 3.03 GHz	24
INTEL DH61WWB3,MBD INTEL CORE i3 3.03 GHz	5
1 CD WITH prodesktop 2000 i ² LCD with miniCAM	30
Mechanical Desktop Release	5
Mechanical Solution Sets	11
EDGE CAM 11.0 electrical version with unlimited student version	5
ANSYS ACADEMIC TEACHING introductory software version 11.0	25
ANSYS academic teaching mechanical multibody dynamics	25
PRO-E WILDFIRE 5.0	1
DVD ROM LG	1
TVSE-MSP-345-DOT MATRIX 24 PIN-300 CPS. B6LOC	1
TVSE-MSP-745-DOT MATRIX 24 PIN-312 CPS. B6LOC	1
HP 1180C A3 Printer	1
HP 1180C A3 Inkjet Printer	1



HP 1020 PLUS Printer Laser	1
HP A1 PLOTTER C7796D	1
Computer Numerical Control Slant Bed (LATHE MODEL:XL TURN)	1
Special accessories for XL turn	5
CNC Simulation Tutor Software For Lathe & Milling	1
CNC Bench Milling Machine Model Mill	1
Accessories: special accessories for computer numerical control bench milling machine-Model XLMILL	2
PROCESSOR: PENTIUM 3 @ 866 MHz	1
Manufacturing Technology Laboratory	
Radial Drilling Machine	1
Surface Grinding	1
Cylindrical Grinding	1
Centerless Grinding Machine	1
Gear Hobbling Machine	1
Shaping Machine	2
Planing Machine	1
Milling Machine	1
Gear Shaper	1
Slotting Machine	1
Tool dynamo meter	1
Bench Grinder	1
Drilling machine	1
Power hacksaw	1
Lathe (L1)	1
Lathe (L2)	1



Lathe (L3)	1
Lathe (L4)	1
Lathe (L12)	1
Lathe (L13)	1
Lathe (L14)	1
Lathe (L15)	1
Lathe (L16)	1
Lathe (L17)	1
Lathe (L18)	1
Lathe (L19)	1
Lathe (L20)	1
Lathe (L21)	1
Capstan Lathe	1
Welding Machine	1
Welding Machine	1
Welding Machine	1
Welding Machine	1

Details of equipment procured:

Name of particulars	Quantity
Thermal Engineering Laboratory	
Fin heat Transfer Apparatus with computer simulation and data acquisition system	1
Forced convection Apparatus with computer simulation and data acquisition system	1
MPFI Experimental arrangement	1
4-Stroke 3 Cylinder petrol engine trainer kit	1
Strength of Materials Laboratory	
Supply of 7 in 1 Dynamic computerized servo controlled fatigue testing machine	1



SCIENCE & HUMANITIES

S.No	Particulars	Area (Sq.m)
1	Chemistry Laboratory	162
2	Physics Laboratory	200
3	Communication Skills Laboratory	135
Total Carpet Area (Sq.m)		497

Equipment's :

For Physics Laboratory

SI.No	Name of the Quantity	Quantity
1	Ultrasonic interferometer	5
2	Travelling Microscope	4
		2
		2
		5
		3
		4
		1
3	Cathode ray oscilloscope	5
4	Carey Foster Bridge	5

For Chemistry Laboratory:

S.no	Name of the Equipment	Number of Quantity
1.	Conductivity Meter (Digital)	4
2.	Conductivity Meter (Digital)	2
3.	Conductivity Meter (Digital)	2
4.	Conductivity Meter (Digital)	4
5.	Digital Potentiometer	1
6.	Digital Potentiometer	3
7.	Digital Potentiometer	1
8.	Digital Potentiometer	2
9.	Digital Potentiometer	5
10.	Digital P ^H Meter	4
11.	Digital P ^H Meter	1
12.	Digital P ^H Meter	1
13.	Digital P ^H Meter	4
14.	Spectrophotometer	1



15.	Spectrophotometer	2
16.	Flame Photometer	1
17.	Flame Photometer	2
18.	Electronic Weighing Balance	1
19.	Electronic Weighing Balance	3
20.	UV-Visible Spectro Photometer	1

For Communication Skills Laboratory:

SI.No	Name of the item	Quantity
1	Software	60 USERS
2	Computer	24
3	Computers	6
4	Computers	5
5	Computers	37
6	Printer	2
7	Printer	3
8	Printer	1
9	Headset	33
10	Headset	25
11	Headset	40
12	Headset	40
13	Handy cam	1
14	Handy Cam	1
15	Television	1
16	Projector	1



17	Collar Mic	1
18	Audio Mixer	1
19	CardlessMic	1



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