



**Department of Computer Science & Engineering**

**Lab Details**

S.No.	Name of Lab's	Name of Lab's	Details of Equipment/Instrumentation available	Quantity	Lab Cost	Total Cost	
1	Lab-1 /GF3012	Android Lab	H/W	Lenovo 18.5"Colour Monitor TFT, Pentium Dual Core CPU E5400, 2.70GHz, 240GB Hard Disk, 4GB RAM, Optical mouse, Multimedia keyboard	30 System	747761/-	9,14,081.00
			S/W	VLSI Front End Software- Xilinx Logic Edition, Android studio, LogistEN 2.7.1,Swift	30 User	166,320	
2	Lab-2 /GF3011	Software Engineering Lab	H/W	Lenovo 18.5"Colour Monitor TFT, Pentium Dual Core CPU E5400, 2.70GHz, 240GB Hard Disk, 4GB RAM, Optical mouse, Multimedia keyboard	30 System	747761/-	9,14,081.00
			S/W	VLSI Front End Software- Xilinx Logic Edition, Android studio, LogistEN 2.7.1,Swift	30 User	166,320	
			S/W	Software Testing Tool- Rational Quality manager, Rational Functional Tester	30 User	2,24,720	
			S/W	Software Testing Tool- Rational Quality manager, Rational Functional Tester	30 User	2,24,720	
3	Lab-3 /GF3010	Programing Lab	H/W	Lenovo 18.5"Colour Monitor TFT, Pentium Dual Core CPU E5400, Optical mouse, Multimedia keyboard	30 System	747761/-	7,47,761.00
			H/W	2.70GHz, 240GB Hard Disk, 4GB RAM			
			S/W	Turbo-C/C++, Java-8, Unity 3D for gamming			
			S/W	Turbo-C/C++, Java-8, Unity 3D for gamming			
4	Lab-4 /GF3009	Full Stack Development Lab	H/W	Lenovo Think Center Commercial Dual Core, EC5300@3.00Ghz, 4 GB RAM, 320 GB Hard disk, USB LAN, Keyboard, Optical Mouse, 18.5" TFT Screen	30 System	683,350	6,83,350.00
			S/W	Html,CSS,Bootstrap-4, ES6 React & Node JS, Mono DB , Oracle 12c			
5	Lab-5 /GF3008	Cloud Computing Virtualization Lab	H/W	Lenovo 18.5"Colour Monitor TFT, Pentium Dual Core CPU E5400, Optical mouse, Multimedia keyboard	30 System	747761/-	7,47,761.00
			H/W	2.70GHz, 240GB Hard Disk, 4GB RAM			
			S/W	VM Ware or Oracle virtual box, Java-8,Oracle 12c			
			S/W	VM Ware or Oracle virtual box, Java-8,Oracle 12c			
6	Lab-6 /SF3201	Microprocessor lab, N/w lab, H/w lab	H/W	Lenovo 19.5" Colour Monitor TFT, Core i-3, 3.90GHz, 1TB Hard Disk, 7 <sup>th</sup> GEN, 4GB RAM, Optical mouse, Multimedia keyboard	30 System	982,814	21,01,706.00
			S/W	Emu4086, Cisco routers trace route, NS 2.0, Cisco router, Falcon LAN, Trainer Kit, Benchmark LAN kit-2, 8085 microprocessor kit	10 Kit	868,982	
			S/W	TETCOS NETSIM 4.0	30 User	249910	
7	Lab7 /SF3202	Artificial Intelligence Lab	H/W	Lenovo 17"Colour Monitor TFT, Pentium Dual Core CPU E5400,	30 System	7,87,500	7,87,500.00

*Sanat*  
20/02/22  
Dr. Sanat  
*Arjibhaya*

S.No.	Name of Lab's	Name of Lab's	Details of Equipment/Instrumentation available	Quantity	Lab Cost	Total Cost
		& Deep Learning lab	2.70GHz, 250GB Hard Disk, 4GB RAM , Optical mouse, Multimedia keyboard			
			S/W Python and Ruby. CISP, Prolog			
8	Lab-8 /SF3203	Simulation Lab & DBMS lab	H/W Lenovo TFT 17" Colour Monitor, Pentium Dual Core, 250GB Hard Disk, 2 GB RAM, 2.00GHz, Mouse, Keyboard	30 System	750,000	7,50,000.00
			S/W SCI lab , Oracle 12c			
9	Lab-9 /SF3204	Unix Lab	H/W Lenovo 19.5" Colour Monitor TFT, Core i-3, 3.90GHz, 1TB Hard Disk, 7 <sup>th</sup> GEN, 4GB RAM, Optical mouse, Multimedia keyboard	30 System	982,814	9,82,814.00
			S/W VM Ware or Oracle virtual box, UNIX OS			
10	Lab-10 /SF3205	IoT/soft computing/spoken tutorial/ Remote center/ NPTEL lab	H/W Lenovo 19.5" Colour Monitor TFT, Intel Core i-5, 3.90GHz, 1TB Hard Disk, 7 <sup>th</sup> GEN, 8GB RAM, Optical mouse, Multimedia keyboard	60 System	25,98,006	25,98,006.00
			S/W Tensor flow (Google machine learning), Python and Ruby, Amazon machine Learning (AML)			
11	Lab 11 /FF3103	Research Lab	H/W Lenovo 19.5" Colour Monitor TFT, Core i-3, 3.90GHz, 1TB Hard Disk, 7 <sup>th</sup> GEN, 4GB RAM, Optical mouse, Multimedia keyboard	15 System, 5 Accessories	914,689	15,44,667.00
			S/W MATLAB 2018a for 2 users, LaTeX-2018, IEEE Macros			
12	Lab-12 /FF4104	Web Technology Lab	H/W HP 14" Colour Monitor, Pentium Dual Core, 2.80GHz, 160GB Hard Disk, 4GB RAM Mouse, Keyboard	30 System	670800	670800
			S/W Turbo-C/C++, Java-8, Net beans			
13	Lab-13 /FF4105	Computer Graphics Lab	H/W Lenovo Think Center Commercial Dual Core, EC5300@3.00Ghz, 4GB RAM, 320 GB Hard disk, USB LAN, Keyboard, Optical Mouse, 18.5" TFT Screen	30 System	683,350	6,83,350.00
			S/W Turbo-C/C++, Java-8, Net beans			
14	HOD & Staff Rooms /GF3012	HOD & Staff Rooms	Lenovo 19" Colour Monitor TFT, Pentium Dual Core CPU E5400, 2.70GHz, 240GB Hard Disk, 2GB RAM,	05 System, 01 Printer, 3 DLP	2,01,600.00	2,01,600.00
			All In One Printer (HP Laser Jet M1136 MFP), 3 DLP			
15	SF 3214	Seminar Hall	Chairs, EPSON Multimedia Projector (DLP)	1 DLP, 110 Chairs	357000	3,57,000.00
				<b>Total System 530</b>	<b>Total System Cost 1,19,18,153</b>	<b>Total Lab Cost 1,46,84,477</b>

*Santosh*  
 26/02/22  
 Dr. Santosh Achary



# SHRI SHANKARACHARYA TECHNICAL CAMPUS SHRI SHANKARACHARYA GROUP OF INSTITUTIONS


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## DEPARTMENT OF CIVIL ENGINEERING

### DETAILS OF LABORATORIES

S. No.	ROOM NO.	LAB DESCRIPTION	EXCLUSIVE/ SHARED	SPACE FOR NUMBER OF STUDENTS	SIZE (SQ. M.)
1	5004	Fluid Mechanics Lab	Exclusive	30	111.48
2	5005	Material Testing/ Concrete Testing Lab	Exclusive	30	138.09
3	5006	Transportation Lab	Exclusive	30	102.43
4	5006	Geology Lab	Shared	30	102.43
5	5007	Geotech Engineering Lab	Exclusive	30	131.14
	5105	Basic Civil Engineering Lab	Exclusive	30	67.22
6	5107	Environmental Engineering Lab	Exclusive	30	102.02
7	5109	Surveying Field Work Lab	Exclusive	30	86.45
8	5204	Computer Added Structure Lab	Exclusive	20	32.51
9	5205	Computer Added Structure Lab	Exclusive	30	68.29
10	5208	Computer Lab	Exclusive	30	101.79
11	5308	Research Lab	Exclusive	30	68.29
12	5106	Departmental Library	Exclusive	30	15.43

  
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Dept of Civil Engg  
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## DEPARTMENT OF CIVIL ENGINEERING

### Geotechnical Engineering- Lab

#### LIST OF EQUIPMENTS/ MACHINES

S. No.	Name of Equipment/ Machine	Quantity	Cost (in Rs.)
1	C.B.R. PROVING RING 5000KG WITH DIAL GAUGE 0.002MM	1	14500.00/- Rs.
2	DYNAMIC CONE PENETRATION TEST APPARATUS (DCTP)	1	30000.00/- Rs.
3	STANDARD PENETRATION TEST APPARATUS (SPT)	1	58200.00/- Rs.
4	SOIL TESTING KIT	1	12000.00/- Rs.
5	PLATE LOAD TEST APPARATUS HYDRAULIC JAK CAPACITY 50 TONES	1	135500.00/- Rs.
6	TRIAxIAL SHEAR APPARATUS ELECTRICALLY CUM MANUALLY	1	118750.00/- Rs.
7	DIRECT SHEAR TEST APPARATUS	1	65850.00/- Rs.
8	ANNULAR METALIC WEIGHT: 2.5 Kg	1	450.00/- Rs.
9	ANNULAR METALIC WEIGHT: 2.5 Kg	1	950.00/- Rs.
10	APPARATUS FOR SOIL DENSITY DETERMINATION (CORE CUTTER METHOD)	1	2015.00/- Rs.
11	PYCNOMETER 500ML	1	520.00/- Rs.
12	PYCNOMETER 1000ML	1	750.00/- Rs.
13	ALUMINIUM CONTAINER: (SIZE 2"×1")	1	30.00/- Rs.
14	ALUMINIUM CONTAINER: (SIZE 2"×3")	1	45.00/- Rs.
15	HOT AIR OVEN (SIZE 45cm× 45cm× 45cm)	1	9500.00/- Rs.
16	LIQUID LIMIT DEVICE	1	2475.00/- Rs.
17	SHRINKAGE LIMIT APPATAUS	1	1325.00/- Rs.
18	CONSTENT HEAD PERMEABILITY TEST APPARATUS: WITH OVERHEAD WATER TANK	1	24150.00/- Rs.
19	COMPACTION APPARATUS MOULD	1	2700.00/- Rs.
20	C B R LOAD FRAME	1	27500.00/- Rs.
21	C B R MOULD	1	1550.00/- Rs.
22	CUTTING COLLAR	1	850.00/- Rs.



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S. No.	Name of Equipment/ Machine	Quantity	Cost (in Rs.)
23	CONSOLIDATION DIAL GAUGE	1	2550.00/- Rs.
24	CONNING TOLL SET	1	6500.00/- Rs.
25	CONSOLIDATION APPARATUS	1	32500.00/- Rs.
26	DIAL GAUGE	1	2550.00/- Rs
27	DIAL GAUGE	1	2550.00/- Rs
28	ELECTRONIC BALANCE (0.01 GRAM)	1	19913.00/- Rs
29	FIELD DENSITY APPARATUS	1	1850.00/- Rs
30	HAMMER (25Gm)	1	521.00/- Rs
31	LAB VANE SHEAR	1	24500.00/- Rs
32	LOAD TRUSS CAPACITY 300KN (30000Kgf)	1	208549.00/- Rs
33	MECHANICAL SIEVE 100mm, 63mm, 20mm, 10mm	4	8968.00/- Rs
34	MEASURING JAR CYLINDER 1000ml	1	260.00/- Rs
35	METAL SPACER DISC	1	950.00/- Rs
36	METAL TRIPOD STAND	1	475.00/- Rs
37	NORTH DAKOTA CONE APPARATUS	1	14500.00/- Rs
38	PENITRATION PISTON	1	750.00/- Rs
39	PERFORATED BRASS PLATE	1	950.00/- Rs
40	PROVING RING	1	17500.00/- Rs
41	PROVING RING	1	16500.00/- Rs
42	PROVING RING	1	16500.00/- Rs
43	PROCTOR RAMMER	1	975.00/- Rs
44	PERMEABILITY GLASS TUBE	1	1700.00/- Rs
45	PERMEABILITY RUBBER TUBE	1	280.00/- Rs
46	RAMMER FOR COMPACTION AS PER IS 2720	1	1440.00/- Rs
47	SOIL HYDROMETER	1	1785.00/- Rs
48	SOIL SAMPLING TUBE PISTON TUBE 38mm Dia× 150mm LENGTH	1	750.00/- Rs
49	SOIL EXTRACTOR	1	9775.00/- Rs
50	STRAIN DIAL GAUGE	1	2550.00/- Rs
51	SAMPLING TUBE 38mm× 150mm	1	2550.00/- Rs
52	SAMPLING TUBE 38mm× 150mm	1	2850.00/- Rs
53	SAMPLE EXTRACTER	1	16500.00/- Rs
54	SAMPLER (D S T) SS	1	3718.00/- Rs
55	SAMPLER TRIMMER (D S T)	1	2018.00/- Rs





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S. No.	Name of Equipment/ Machine	Quantity	Cost (in Rs.)
56	TEST SIEVE 20cm DIA BRASS FRAMES PER IS 460 SIZE: 4.75mm, 2mm, 2.36mm, 1.18mm, 600mic, 425mic, 300mic, 212mic, 150mic, 75mic, 90mic,		31020.00/- Rs
57	THERMAMETER ROOM TEMPRATURE	1	150.00/- Rs.
58	UNCONFINED COMPRESSION	1	32500.00/- Rs
59	VERNIER CALIPERCE	1	95.00/- Rs.
60	CORE CUTTER DOLLY WITH RAMMER	2	3944.00/- Rs.
61	PYCNOMETER 500ML	3	1428.00/- Rs.
62	GAUGING TROWEL	7	1725.00/- Rs.
63	ENAMEL TRAY 300*250*40	2	561.00/- Rs.
64	ENAMEL TRAY 600*450*50	2	1878.00/- Rs.
65	SPECIFIC GRAVITY BOTTEL 50ML	3	1045.00/- Rs.
66	SHRINKAGE LIMIT APPATAUS	1	1700.00/- Rs.
	Total		1011883.00/- Rs.

  
Prof. In-Charge

  
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Deptt of Civil Engg  
Faculty of Engg & Tech



**DEPARTMENT OF CIVIL ENGINEERING**

**Material Testing/ Concrete Testing- Lab**

**LIST OF EQUIPMENTS/ MACHINES**

S. No.	Name of Equipment/ Machine	Quantity	Cost (in Rs.)
1	BRIQUETTE MOULD SINGLE FOR TENSILE STRENGTH TESTER	3	3950.00/- Rs.
2	CUBE MOULD (150mm×150mm)	1	1950.00/- Rs.
3	COMPACTION FACTOR APPARATUS	1	17800.00/- Rs.
4	COMPRESSION TESTING MACHINE 200 MT WITH THREE PRESSURE GAUGES	1	169750.00/- Rs.
5	FLOW TABLE APPARATUS	1	10500.00/- Rs.
6	ELECTRONIC WEIGHING MACHINE	1	16350.00/- Rs.
7	GAUGING TROWEL	1	1050.00/- Rs.
8	HOT AIR OVEN S.S. INSIDE CHAMBER SIZE 18"×18"×18"	1	15425.00/- Rs.
9	IMPECT TESTING	1	9750.00/- Rs.
10	SLUMP CONE APPARATUS WITH COMPLETE ACC	2	3190.00/- Rs.
11	TENSILE TESTING MACHINE	1	85000.00/- Rs.
12	TILES FLEXURAL STRENGTH	1	39500.00/- Rs.
13	TILES EXTENSION ROD	1	1750.00/- Rs.
14	TRAY SMALL	3	5550.00/- Rs.
15	TRAY MEDIUM	3	6750.00/- Rs.
16	TRAWEL	5	1250.00/- Rs.
17	VIBRATING TABLE (20"×20")	1	19500.00/- Rs.
18	OVEN WIRE BASKET	1	1250.00/- Rs.
19	VICATE APPARATUS WITH ISI MARK CONFORMING TO IS 5513	2	3640.00/- Rs.
20	SIEVE SET I. COARSE 80, 63, 50, 40, 20, 10, 6.3, 4.75mm LONG WITH LID & PAN	1	2455.00/- Rs.
	II. FINE 4.75mm TO 75μ (MICRON)	1	3355.00/- Rs.
21	SIEVE SHAKER MOTORIZED WITH ADAPTOR	1	21340.00/- Rs.
22	VICATE NEEDLE APPARATUS	2	4930.00/- Rs.



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S. No.	Name of Equipment/ Machine	Quantity	Cost (in Rs.)
23	WIRE BASKET	1	743.00/- Rs.
24	FLOW TABLE AS PER IS 712, HAND OPERATED	1	9375.00/- Rs.
25	REBOUND HAMMER FOR CONCRETE TESTING	1	7403.00/- Rs.
26	PLASTIC MEASURING CYLINDER 1000ML	4	1785.00/- Rs.
27	PLASTIC MEASURING CYLINDER 500ML	4	1394.00/- Rs.
28	FLEXURE TESTING MACHINE	1	103796.00/-Rs
29	BLAIN AIR PERMEABILITY MACHINE	1	3194.40/-Rs.
	Total		466685.00/- Rs.

Prof. In-Charge

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Deptt of Civil Engg  
Faculty of Engg & Tech





**DEPARTMENT OF CIVIL ENGINEERING**

**Fluid Mechanics- Lab**

**LIST OF EQUIPMENTS/ MACHINES**

S. No.	Name of Equipment/ Machine	Quantity	Cost (in Rs.)
1	BERNOULLI'S APPARATUS	1	33000.00/- Rs.
2	SINGLE SPEED CENTRIFUGAL PUMP TEST RIG.	1	50600.00/- Rs.
3	FRANCIS TURBINE TEST RIG.	01 UNIT	181699.00/- Rs.
4	LOSSES IN BENDS AND ELBOW	1	47300.00/- Rs.
5	NOTCH TANK APPARATUS	1	49500.00/- Rs.
6	PELTON WHEEL TURBINE TEST RIG.	01 UNIT	146655.00/- Rs.
7	PIPE FRICTION APPARATUS	1	44000.00/- Rs.
8	REYNOLD'S APPARATUS	1	29960.00/- Rs.
9	RECIPROCATING PUMP TEST RIG.	1	50600.00/- Rs.
10	VENTURIMETER AND ORIFICEMETER TEST RIG.	1	50930.00/- Rs.
11	PIPE	15 M	300.00/- Rs.
12	PVC PIPE	5 M	300.00/- Rs.
13	1. GATE VALVE (1/2 INCH) 2. CONNECTOR 3. GLASS TUBE (1 METER)	1	145.00/- Rs. 05.00/- Rs. 200.00/- Rs.
14	APPARATUS FOR MOMENTUM THEOREM	1	28532.40/- Rs.
15	VORTEX FLOW APPARATUS	1	56876.00/- Rs.
16	MULTISTAGE PUMP	1	52156.00/- Rs.
17	VARIABLE SPEED CENTIFUGAL PUMP	1	47318.00/- Rs.
18	RATED SPEED PUMP	1	45736.80/- Rs.
	<b>Total</b>		<b>915813.20/- Rs.</b>

Prof. In-Charge

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Faculty of Engg & Tech



Language Lab Details

Date: 26.2.22

Sr.no	Software	Computers in Lab	Headphones	DLP
1.	ETNL Software	Total 60	Total 60 (Lenovo)	01

*Namrata*  
26/2/22

Ms.Namrata Bhargava

HOD Humanities Department



# SHRI SHANKARACHARYA TECHNICAL CAMPUS

Shri Shankaracharya Group of Institutions

Faculty of Engineering & Technology

(Managed by Shri Gangajali Education Society, Bhilai)

JUNWANI, BHILAI-490 020 (CHHATTISGARH), INDIA

Phone: 0788-2291605, 2291607, Fax: 0788-2291606, E-mail: [ssgi@ssgi.edu.in](mailto:ssgi@ssgi.edu.in)



## Department of Electrical and Electronics List of Equipments and Price (according to Lab)

### Microprocessor Lab

S.No	Equipment/Kits	Date of Purchase	Qty.	Price	Amount
1	8085 Microprocessor Trainer - KITEK -M85-01	16-05-2011	10	6000.00	60000.00
<b>TOTAL</b>					<b>60000.00</b>

### Utilization Lab

S.No	Equipment/Kits	Date of Purchase	Qty .	Price	Amount
1	DC shunt motor controller ( 1 / 4 HP) separately excited armature controlled	26-12-08	1	17000	17000.00
2	Field controlled separately excited DC motor controller ( 1 / 4 HP)	26-12-08	1	18000	18000.00
3	Separately excited DC motor controller ( 1 / 4 HP) proportional controller & Techo. generator feedback.	26-12-08	1	26600	26600.00
4	Separately excited DC motor using proportional integral controller ( 1 / 4 HP)	26-12-08	1	20600	20600.00
5	3 Phase induction motor static voltage controller 3 HP , 415 V	26-12-08	1	39300	39300.00
6	Synchronous motor frequency control	26-12-08	1	46400	46400.00
7	Speed control of 3 phase slip ring induction motor trainer (PEC16HV10V)	26-09-2011	1	124126.67	124126.67
8	DC Motor transfer function study trainer (TIB PEC 14hV-1)	26-09-2011	1	70287.98	70287.98
9	Dual Mosfet module (VPC 1 Amp)	26-09-2011	1	4370.62	4370.62
10	Dual IGBT Module (VPC 2 Amp)	26-09-2011	2	4370.62	8741.24
11	SCR Module (VPC -03)	26-09-2011	2	1964.7	3929.40
12	Rectifier diode ( VPET 106 D)	26-09-2011	1	2543.75	2543.75
13	IGBT module (VPET 106 I)	26-09-2011	1	2775	2775.00
14	SCR Mosfet (VPET -106 Amp)	26-09-2011	1	2775	2775.00

15	SCR Convertor (VPET -106 S)	26-09-2011	1	3700	3700.00
16	Trac Module (VPET -106 T)	26-09-2011	1	2775	2775.00
17	TMS 320F2812 DSP trainer kit (Micro 2812)	18-10-2011	1	58766.17	58766.17
18	1.2 HP PMSM motor with eddy current loading arrangement and resolver (PEC 16 PMSMER1)	18-10-2011	1	189360.45	189360.45
19	3 phase IPM based power module(PEC16DSM01)	18-10-2011	1	97943.62	97943.62
<b>Total</b>					<b>7,39,994.00</b>

### Digital Electronics Lab

S.No	Equipment/Kits	Date of Purchase	Qty.	Price	Amount
1	Digital Multimeter	16-12-2007	2	900.00	1800.00
2	Universal Breadboard Trainer Kit	20-02-2008	2	12000.00	24000.00
3	Oscilloscope	28-01-2009	2	18013.00	36026.00
4	Function Generator	28/01/2009	2	6900.00	13800.00
5	Analog Digital Trainer (Topboard)	25/04/2011	1	8500.00	8500.00
<b>Total</b>					<b>84126.00</b>

### Basic Electronics Lab

S.No	Equipment/Kits	Date of Purchase	Qty.	Price	Amount
1	Characteristic of diode kit	22/03/04	1	1,550.00	1,550.00
2	IC 741 as Inverting amplifier	22/03/04	1	1,550.00	1,550.00
3	IC 741 as Non Inverting amplifier	22/03/04	1	1,550.00	1,550.00
4	IC 741 as adder & average circuit	22/03/04	1	1,550.00	1,550.00
5	IC 741 as subtractor kit	22/03/04	1	1,550.00	1,550.00

6	Op- Amp IC 741 trainer kit	22/03/04	1	1,600.00	1,600.00
7	Transistor characteristic in C.C. configuration kit	22/03/04	1	1,600.00	1,600.00
8	Transistor characteristic in C.B. configuration kit	22/03/04	1	1,600.00	1,600.00
9	Transistor characteristic in C.E. configuration kit	22/03/04	1	1,600.00	1,600.00
10	J.E.F.T. characteristic kit	22/03/04	1	1,600.00	1,600.00
11	Mosfet characteristic kit	22/03/04	1	1,600.00	1,600.00
12	Zener diode characteristic kit	22/03/04	1	1,550.00	1,550.00
13	Brad board Trainer kit rectifier, filter , zener regulator, expt. Panel /ps	22/03/04	1	8,500.00	8,500.00
14	Oscilloscope 30Mhz	6/12/07	2	19,500.00	39,000.00
15	Function Generator	28/11/09	2	6,900.00	13,800.00
16	Digital Multimeter	6/12/09	7	900.00	6,300.00
17	Semiconductor Diode and Zener Diode	20/2/13	3	5,680.00	16,14.000
18	Halfwave and Full wave Rectifier	20/2/13	3	5,780.00	17,340.00
19	Characteritics of FET	20/2/13	3	2,990.00	8,970.00
20	CB, CC, CE Kit	20/2/13	3	8,970.00	26,910.00
21	Zener diode as a Voltage Regulator	20/2/13	3	2,990.00	8,970.00
22	Self Bias Circuit	20/2/13	3	5,980.00	17,940.00
23	Transistor Application Trainer Kit	20/2/13	3	9,500.00	2,8500.00
<b>Total</b>					<b>2,11,270.00</b>

### Linear Control System Lab

S.No	Equipments/ Kits	Date of Purchase	Qty.	Price	Amount
01	Stepper Motor Characteristic Study Module (VSMT-02)	09/03/05	01	19,360.00	19,360.00
02	Cathode Ray Oscilloscope ( No. 1000606046)	22/08/07	01	18,252.00	18,252.00
03	Cathode Ray Oscilloscope ( No.	28/01/09	01	18,013.00	18,013.00

04	Control Trainer XPO-PID(Master Unit)	20/08/09	01	24,000.00	24,000.00
05	Process Simulator panel (CE-1)	20/08/09	01	11,500.00	11,500.00
06	Potentiometer Error Detector	20/08/09	01	12,500.00	12,500.00
07	PC System ( Lenovo) Sr. No. 11S0B07184	24/01/12	01	20,000.00	20,000.00
08	Linear System Simulator ( CL-LSS)	31/12/12	02	19,000.00	38,000.00
09	Synchro transmitter and Receiver Trainer(PEc-03)	05/02/13	02	44,081.00	88,162.00
10	Transfer Function of Two-Phase AC Servomotor	05/02/13	02	37,782.00	75,565.00
11	DC Motor Transfer Function Study trainer (1TB-PEC 14HV1)	05/02/13	02	36,302.00	72,605.00
12	Lag-Lead Simulator(VLLN-01)	05/02/13	02	18,700.00	37,400.00
<b>TOTAL</b>					<b>4,35,357.00</b>

### Analog Electronics Lab

S. No.	Equipment	Date of Purchase	Qty	Price	Amount
1.	Common Collector Configuration kit	23/04/2011	01	2000.00	2000.00
2.	Common Emitter Configuration kit	23/04/2011	01	2000.00	2000.00
3.	RC Phase shift Oscillator	23/04/2011	01	2400.00	2400.00
4.	Emitter Follower kit	23/04/2011	01	3000.00	3000.00
5.	Wein Bridge Oscillator kit	23/04/2011	01	2400.00	2400.00
6.	Oscilloscope	28/01/2009	01	18013.00	18013.00
7.	Transistor Characteristics kit	25/04/2011	01	9500.00	9500.00
8.	Transistor Characteristics in CE mode	20/02/2013	03	2990.00	8970.00
9.	Transistor Characteristics in CB mode	20/02/2013	03	2990.00	8970.00
10.	Single stage CE amplifier	20/02/2013	03	2990.00	8970.00
11.	Two stage RC coupled amplifier transistor	20/02/2013	03	3390.00	10170.00
12.	Voltage series and voltage shunt negative feedback amplifier	20/02/2013	03	4500.00	13500.00
13.	Current series and current shunt feedback amplifier	20/02/2013	03	4500.00	13500.00
14.	Transistor Characteristics in CC mode	20/02/2013	03	2990.00	8970.00
15.	Wein Bridge Oscillator kit	20/02/2013	03	3090.00	9270.00
16.	Single stage CC amplifier	20/02/2013	03	2990.00	8970.00
17.	Class AB push-pull amplifier	20/02/2013	03	3290.00	9870.00
18.	RC Phase shift Oscillator	20/02/2013	03	3090.00	9270.00
19.	Darlington transistor amplifier	20/02/2013	03	3290.00	9870.00
<b>Total</b>					<b>159613.00</b>

### Integrated Circuits & Applications Lab

S. No.	Equipment /kit	Date of purchase	Qty.	Price	Amount
1	Monostable multivibrator using transistor kit	20/2/2013	3	3300.00	9900.00
2	Astable multivibrator using transistor kit	20/2/2013	3	3000.00	9000.00
3	Bistable multivibrator using transistor kit	20/2/2013	3	3275.00	9825.00
4	741 op-amp trainer kit	20/2/2013	3	5050.00	15150.00
5	Astable multivibrator using kit 555 timer	20/2/2013	3	3000.00	9000.00
6	Monostable multivibrator using kit 555 timer	20/2/2013	3	4000.00	12000.00
7	Voltage regulation fo 78xx & 79xx kit	20/2/2013	3	2550.00	7650.00
8	Cliper & b clamper ckt. Using diodes kit	20/2/2013	3	4520.00	13560.00
9	Op-amp parameter kit	20/2/2013	3	4000.00	12000.00
10	SVRR of op-amp kit	25/6/2013	3	2500.00	7500.00
<b>Total</b>					<b>1,05,585.00</b>

### PLC LAB

S.No	Equipment/Kits	Date of Purchase	Qty.	Price	Amount
1	PLC	13-07-2013	6	1,50,000.00	9,00,000.00
2	AC Drive	13-07-2013	3	75,000.00	2,25,000.00
3	DC Drive	13-07-2013	1	1,25,000.00	1,25,000.00
4	Switchgear Protection Kit	13-07-2013	1	75,000.00	75,000.00
5	WinCC	13-07-2013	1	1,00,000.00	1,00,000.00
6	Step 7	13-07-2013	6	50,000.00	6,00,000.00
<b>TOTAL</b>					<b>17,50,000.00</b>

### Computer Lab

S. No.	Name of Hardware	No. Of Users	Total Expenditure
1	Microsoft Windows XP Professional Intel@Pentium(R) CPU Speed- 2.60GHz, RAM-2 GB Hard Disk- 2 GB, Monitor- TFT MAKE - Lenovo	30	6,00,000.00

I/C Laboratory

*S. H. HODÉE*  
**HODÉE**



# SHRI SHANKARACHARYA TECHNICAL CAMPUS

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Phone: 0788-2291605, 2291607, Fax: 0788-2291606, E-mail: [ssgi@ssgi.edu.in](mailto:ssgi@ssgi.edu.in)



## Department of Electrical Engineering

### List of Equipment & Price Basic Electrical and Electronic Engg. Lab

S.No	Equipment/Kits	Date of Purchase	Qty	Rate	Cost
1.	Ammeter MI(0-2A)	15/6/2002	1	1182.50	1182.50
2.	Ammeter MI ( 0 -3A)	21/10/02	1	1075.00	1075.00
3.	Ammeter MI ( 0 -2A)	29/08/02	1	1182.00	2400.00
4.	Ammeter MI ( 0 -1A)	15/06/02	2	1738.00	3476.00
5.	Ammeter MI ( 0 -15/30A)	21/10/02	3	1125.00	3375.00
6.	Ammeter MI ( 0 -0.5A)	15/06/02	1	1738.00	1738.00
7.	Choke coil 45A,230V		5	100.00	500.00
8.	Digital Multimeter	16/3/15	1	999.00	999.00
9.	Analog Multimeter (TES 310 )	14/07/09	1	3100.00	3100.00
10.	Voltmeter MI( 0- 300V )	07/08/01	3	1075.00	3225.00
11.	Voltmeter MI( 0- 15V)	15/06/02	1	1793.00	1793.00
12.	Voltmeter MI( 0- 300V)	07/08/01	1	1182.00	1182.00
13.	Voltmeter MI( 0- 150V)	0/06/02	1	1075.00	1075.00
14.	V.I. Characteristics of a resistance kit	13/09/01	1	291.00	291.37
15.	Wattmeter 500V , 10/2A 1 phase	07/08/01	2	1850.00	3700.00
16.	Auto Transformer 1 phase , 5A, 0- 260V	17/10/00	3	2930.00	8790.00
17.	Auto Transformer 3 phase , 15A, 0- 470V	29/04/01	1	149500.00	149500.00
18.	Rheostat 100 ohm , 1.8A,	17/10/00	3	785.00	2355.00
19.	Rheostat 34 ohm , 2.8A	17/10/00	1	715.00	715.00
20.	Function generator 1 MHz	15/06/02	1	8525.00	8525.00
21.	Function generator 1 MHz	21/08/02	2	7362.00	14724.00
22.	Kirchhoff Current Law (NTC -001)	09/05/11	1	2090.00	2090.00
23.	Lamp load 1 phase 200W, 100 W		4	110.00	440.00
24.	Norton 's Theorem kit	06/04/00	1	2400.00	2400.00
25.	Norton Analyzer Kit	12/09/01	1	291.37	291.37
26.	Ohm's Law	19/10/04	1	2400.00	2400.00
27.	Super position Theorem kit	06/04/00	2	2400.00	4800.00
28.	Super position Theorem kit	19/10/04	1	2250.00	2250.00
29.	Thevenins Theorem kit 201	17/05/11	1	3600.00	3600.00
30.	Thevenins Theorem kit 202	17/05/11	1	3600.00	3600.00
31.	Series & Parallel Resonance kit	06/04/00	2	1200.00	2400.00
32.	Digital Multimeter DM 3540A	19/11/10	2	1950.00	1950.00







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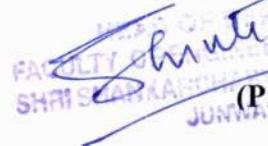
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## Department of Electrical Engineering

### List of Equipment & Price Electrical Machine Lab-I

S.No.	Equipment/Kits	Date of Purchase	Qty	Rate	Cost
1.	Ammeter all type	10/8/2002	28	1175	32900
2.	1 $\Phi$ Auto transformer	17/8/2000	1	2930	2930
3.	1 $\Phi$ Auto transformer	28/4/2001	1	4950	4950
4.	Dimmer stat- 3 phase	28/3/2003	2	35000	70000
5.	DC Compound motor	16/10/2000	1	7840	7840
6.	DC Shunt motor with brake drum	28/4/2001	2	19845	39690
7.	DC Series motor with brake drum	28/04/2001	1	20241	20241
8.	DC Generator coupled with 3 phase	28/04/2001	1	18423	18423
9.	Field regulator for DC shunt generator	28/04/2001	2	1098	2196
10.	Lamp load	28/04/2001	2	1500	3000
11.	Digital Multimeter	7/5/2000	4	2600	10400
12.	3 point DC starter	16/10/2000	3	1692	5076
13.	2 point starter	28/04/2001	1	1620	1620
14.	DOL starter	28/04/2001	1	1440	1440
15.	Rheostat	21/07/2001	3	1178	3534
16.	Rheostat 3.3A/ 190 ohm	16/10/2000	1	3326	3326
17.	Transformer 1 phase/ 3KVA/115V	23/10/2002	1	18745	18745
18.	Transformer 2 KVA/1 phase	28/04/2001	2	6900	13800
19.	Transformer 1 phase 230/115V, 3KVA	14/08/2002	3	8900	26700
20.	Transformer 3 phase 440/230V, 3KVA	19/09/2002	2	13000	26000
21.	Transformer 1 phase 230/230V,3KVA	28/03/2003	2	13650	27300
22.	Thyristor convertor	28/04/2001	3	6310	18930
23.	Voltmeter All type	10/8/2002	13	1175	15275
24.	Wattmeter All type	10/8/2002	5	1900	9500
25.	Single phase transformer 2 KVA 230/115 volts with tapping	10/6/2002	2	7750	15500
26.	Ammeter all type	17/04/2017	02	2300.00	4600
27.	1 $\Phi$ Auto transformer(10Amp.)	17/04/2017	03	13200.00	39600
28.	3 point Starter	17/04/2017	02	4800.00	9600
29.	Dimmer stat- 3 phase	17/04/2017	01	4200.00	4200
<b>Total</b>					<b>4,57,316</b>

  
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## Department of Electrical Engineering

### List of Equipment & Price Electrical Machine -II & Machine- III Labs

S.No	Equipment/Kits	Date of Purchase	Qty.	Rate	Cost
1	Auto Transformer 1 $\Phi$	17/08/00	3	2930	8790
2	Ammeter , 0-2A MC type	07-02-01	2	1175	2350
3	Ammeter , 0-3A M I type	28/07/03	4	1137	4548
4	Ammeter , 0-5A MC type	28/07/04	5	1230	6150
5	Ammeter , 0-10A MC type	07-02-01	2	1175	2350
6	Ammeter , 0-10A M I type	28/07/05	8	1137	9096
7	Ammeter , 10/20A M I type	08-10-02	1	1125	1125
8	Ammeter , 15/30A MC type	08-10-02	1	1125	1125
9	Ammeter , 30A MC type	28/07/05	8	1230	9840
10	Digital frequency meter	19/12/03	2	1314	2628
11	Dimmer stat 3 $\Phi$	28/03/03	2	35000	70000
12	3 $\Phi$ Induction motor coupled with shunt generator	07-12-03	1	44030	44030
13	3 $\Phi$ Slip ring Induction motor coupled with shunt generator	07-12-03	1	35080	35080
14	3 $\Phi$ Induction motor (Slip ring type) mechanically coupled with brake drum	07-12-03	1	27170	27170
15	P.F. meter 3 $\Phi$ 500V/ 10A	19/12/03	1	4224	4224
16	P.F. meter 3 $\Phi$ 440V/ 5A	19/12/04	1	3444	3444
17	P.F. meter 3 $\Phi$ 500V/ 10A	19/12/05	1	4556	4556
18	Rheostat 1.5A , 100 ohm	08-10-00	2	485	970
19	Rheostat 5.2A , 20 ohm	19/12/07	1	670	670
20	Rheostat 1. 8A , 100 ohm	19/12/08	1	785	785
21	Starter 3 point	07-12-03	3	1598	4794
22	Starter DOL	12/0703	2	1402	2804
23	Starter panel	12/0703	3	4550	13650
24	Starter panel cum exciter	12/0703	1	14960	14960
25	Starter panel cum exciter for smtr	12/0703	1	8220	8220
26	Starter ( Auto transformer type)	07-12-03	1	18100	18100
27	Semi automatic starter	08-07-03	1	5100	5100
28	Fully automatic starter	08-07-03	1	6600	6600
29	Synchronous Induction motor mechanically coupled with DC shunt generator	07-12-03	1	47410	47410
30	Synchronous motor mechanically coupled with DC shunt generator	07-12-03	1	35080	35080
31	Cylindrical Rotor type Alternator mechanically coupled with DC shunt motor	07-12-03	2	42150	84300
32	Salient pole type Alternator mechanically coupled with DC shunt motor	07-12-03	1	41030	41030
33	SynchroScope	19/12/03	1	6468	6468
34	Tachometer contact type	05.01.07	1	1000	1000

35	Tachometer Non contact type	04-10-02	1	3432	3432
36	Thyristor Convertor	17/11/03	3	55692	167076
37	Voltmeter MI 0-600V	28/07/03	12	1137	13644
38	Voltmeter MI 0-600V	07-02-01	1	1075	1075
39	Voltmeter MI 300-600V	08-10-02	7	1125	7875
40	Voltmeter MI 0-300V	02/0701	1	1075	1075
41	Voltmeter MI 0-300V	28/07/03	8	1230	9840
42	Voltmeter MI 0-30V	27/07/00	1	1630	1630
43	Voltmeter MI 0-75V	27/07/00	1	1630	1630
44	Voltmeter MI 0-150V	05-01-02	1	1182	1182
45	Wattmeter LPF 3 phase 415V, 15A	19/12/03	2	4350	8700
46	Wattmeter LPF 3 phase 415V, 10A	19/12/03	2	4224	8448
47	Wattmeter LPF 3 phase 440V, 10A	19/12/03	2	4440	8880
48	Wattmeter Dynamometer type	08-10-02	3	1900	5700
49	Wattmeter 300V/ 3A	08-10-02	1	1850	1850
50	Rheostat 3 phase	29/06/2017	1	2100	2100
51	Tachometer Digital	29/06/2017	3	2400	7200
52	Multimeter	29/06/2017	2	1400	2800
53	Clamp meter	29/06/2017	2	1400	2800
<b>Total</b>					<b>7,86,284</b>

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### Department of Electrical Engineering

#### List of Equipment & Price High Voltage Lab

S.No	Equipment/Kits	Date of Purchase	Qty	Rate	Cost
1	100KV AC/100KV DC test set	19-09-08	1	215000	215000
2	100mm sphere gap	19-09-08	1	69200	69200
3	Rod-gap apparatus	19-09-08	1	63250	63250
4	50KV insulation tester	19-09-08	1	34500	34500
5	100KV Capacitor divider	19-09-08	1	56150	56150
6	11KV disc insulator	19-09-08	1	3800	3800
7	11KV disc insulator string (6 discs)	19-09-08	1	27250	27250
8	Corona Cage	19-09-08	1	28000	28000
9	Artificial rain equipment	19-09-08	1	74500	74500
10	150KV , 225J 5 stage Impulse Generator	19-09-08	1	535000	535000
11	Motorized oil test set	19-09-08	1	35000	35000
<b>Total</b>					<b>11,41,650</b>

Lab Incharge: Prof. Anil Brahmin

Lab Demonstrator: Mr. Rajeev Bhimte

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Department of Electrical Engineering

### List of Equipment & Price Computer Lab

Hardware Details of the Lab			
S. No.	Name of Hardware	No.of Users	Total Expenditre
1	Microsoft Windows XP Professional Intel @Pentium (R) CPU Speed-2.60 GHZ RAM-1 GB Hard Disk-160GB Monitor-CRT Company Name-International Business Machine(IBM)	30	1060800.00
2.	Revolving Chair	50	
3.	Computer Table	20	

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## Department of Electrical Engineering

### List of Equipment & Price Electrical Workshop Lab

S.No	Equipment/Kits	Date of Purchase	Qty.	Rate	Cost
1	Electrical Drill Machine	22/06/13	1	2200	2200
2	Hand Drill Machine	20/02/13	1	190	190
3	Hand Drill machine for PCB	22/06/13	1	225	225
4	Energy meter	20/06/13	1	750	750
5	Hydro meter	02/07/13	1	170	170
6	Electric Iron	20/06/13	1	285	285
7	Nose Plier	20/06/13	1	70	70
8	Digital Multimeter	24/06/13	1	1500	1500
9	Transformer	22/06/13	1	130	130
<b>Total</b>					<b>5,520</b>

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### Department of Electrical Engineering

#### List of Equipments with Price Instrumentation Lab

S.No	Equipment/Kits	Date of Purchase	Qty	Rate	Cost
1.	Analog to Digital Convertor	16/03/2016	1	9000	9000
2.	Digital To Analag Convertor	16/03/2016	1	9000	9000
3.	Peizoz Electric Tranducer kit	16/03/2016	1	83400	83400
4.	Speed control of DC motor by PLC setup	16/03/2016	1	5200	5200
5.	Industrial automation	16/03/2016	1	74800	74800
6.	Measurement of current by Hall sensor	16/03/2016	1	900	900
7.	50MHz Dual channel Digital storage oscilloscope	16/03/2016	2	39500	79000
8.	4.5 Digital multimeter	16/03/2016	2	3400	6800
9.	Measurement of Current, Voltage	16/03/2016	1	39900	39900
10.	Capacitive Displacement Sensor	16/03/2016	1	1500	1500
11.	Measurement of Liquid Level	16/03/2016	1	2300	2300
12.	Measurement of force using strain guage	16/03/2016	1	4600	4600
13.	Measurement of Displacement for LVDT	09/09/2010	1	7380	7380
14.	Measurement of Displacement by Inductive Transducer	09/09/2010	1	6570	6570
15.	Measuring angular display with Capacitive Transducer	09/09/2010	1	4140	4140
16.	Temperature Measurement with Thermocouple	09/09/2010	1	5760	5760
17.	Strain guage Trainer	09/09/2010	1	10,620	10,620
18.	Level Measurement with capacitive transducer	09/09/2010	1	4140	4140
19.	4mm Patch chords	15/04/2008	1	2250	2250
<b>Total</b>					<b>3,57,260</b>

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## Department of Electrical Engineering

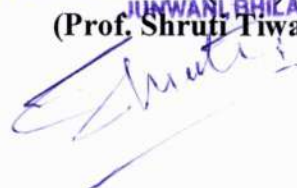
### List of Equipments with Price

#### EMMI Lab

S.No.	Equipment/Kits	Date of Purchase	Qty	Rate	Cost
1	Wheat Stone, bridge kit	25/07/2000	1	2400	2400
2	Wheat Stone, bridge kit	16/12/2003	2	13500	26300
3	Anderson bridge kit	25/07/2000	1	2400	2400
4	Anderson bridge kit	16/12/2003	1	5800	5800
5	De saute 's bridge kit	25/07/2000	1	2400	2400
6	De saute 's bridge kit	16/12/2003	1	5250	5250
7	Maxwell bridge kit EE-124	25/07/2000	1	2400	2400
8	Maxwell bridge kit (395) (0393)	16/12/2003	1	6550	6550
9	Maxwell bridge kit (395) (0392)	16/12/2003	1	6550	6550
10	Hays Bridge kit (392) (383)	16/12/2003	2	6750	13500
11	Weins bridge kit (0391)	16/12/2003	1	5350	5350
12	Kelvin bridge (04153)	16/12/2003	1	20600	20600
13	Schering bridge	16/12/2003	2	5750	11500
14	Energy meter (2.5A) 240v 1 phase	18/01/2000	1	468	468
15	Earth tester	21/10/2002	1	2800	2800
16	Wattmeter	27/12/2000	1	3372	3372
17	Voltmeter	15/06/2002	2	1182	2365
18	Ammeter	15/06/2002	1	1182	1182
19	Ammeter	15/06/2/002	1	1137	1137
20	Variac	17/08/2000	2	2930	5860
21	Current Transformer	17/08/2001	1	2805	2805
22	Multimeter	10/12/2007	2	900	1800
23	Stop watch	14/07/2009	1	500	500
24	Galvanometer	28/01/2009	1	1050	1050
25	Network and Bridge	09/05/2011	1	9500	9500

26	Oscilloscope	14/07/2011	1	18013	18013
27	Desauty bridge trainer	26/05/2011	1	6500	6500
28	Anderson bridge trainer	26/05/2011	1	6500	6500
29	Schering bridge trainer	26/05/2011	1	6500	6500
30	Hay's bridge trainer	26/05/2011	1	6500	6500
31	LCR meter bridge	20/02/2011	1	13224	13224
32	Wheatstone bridge trainer	26/05/2011	1	6500	6500
<b>Total</b>				<b>2,07,576</b>	

HEAD OF DEPARTMENT EE  
 FACULTY OF ENGINEERING & TECHNOLOGY  
 SHRI SHANKAR JEEVAJI TECHNICAL CAMPUS  
**HOD(EE)**  
 (Prof. Shruti Tiwari)





# SHRI SHANKARACHARYA TECHNICAL CAMPUS

## Shri Shankaracharya Group of Institutions



Faculty of Engineering & Technology

(Managed by Shri Gangajali Education Society, Bhilai)

JUNWANI, BHILAI-490 020 (CHHATTISGARH), INDIA

Phone: 0788-2291605, 2291607, Fax: 0788-2291606, E-mail: [ssgi@ssgi.edu.in](mailto:ssgi@ssgi.edu.in)

Department of Electrical Engineering

### List of Equipments with Price Switchgear & Protection Lab

S.No.	Equipment/Kits	Date of Purchase	Qty	Rate	Cost
1	Current Transformer C.T. Ratio 50/5, 5VA	14/09/2010	2	720	1440
2	Generator Protection system with relay Panel, M-G Set	15/12/2007	1	335925	335925
3	IDMI over current relay (Electro Mechanical) with testing kit	10/08/2006	1	48000	48000
4	Negative sequence current relay testing Kit	10/08/2006	1	45400	45400
5	Under voltage relay testing kit	10/08/2006	1	428000	428000
6	Motor Protection Simulation Testing kit	10/08/2006	1	192000	192000
7	Potential Transformer	-	1		
8	400 K Transmission Line Simulator With Protection system	25/02/2009	1	278000	278000
9	Transformer Protection Pannel (Differential Relay)	18/01/2012	1	342000	342000
<b>Total</b>					<b>16,70,765</b>

HEAD OF DEPARTMENT EE  
FACULTY OF ENGINEERING & TECHNOLOGY  
SHRI SHANKARACHARYA TECHNICAL CAMPUS  
JUNWANI, BHILAI

**HOD(EE)**  
(Prof. Shruti Tiwari)



**DEPARTMENT OF INFORMATION TECHNOLOGY**

Date: 26/02/2022

**Computer Lab Details**

Sl. No	Lab No.	Room No.	Configuration	Software	Lab Area	No Of System /Quantity	Present Cost (Rs)
1	IT Computer Lab-1 (AI ML Lab)	3017	1. LENOVO think centre think tower Desktop Core i7, 1 TB HDD, 16 GB DDR- 4 RAM , ,USB,Lan, Keyboard, Optical mouse,19.5'' TFT screen 2. Graphics Card Quadro 400 3. HP Monitor LED, 4K	Microsoft Campus license (Window 10, UBUNTU 20)	9 X 10 sq.m.	1. 25 2. 25 3. 2	26,76,830/-
2	IT Computer Lab-2	3016	LENOVO think centre 2.7 GHz, 4 GB DDR- 2 RAM, 250 GB HDD,USB,Lan, Keyboard, Optical mouse,18.5'' TFT screen	Microsoft Campus license (Window 7,Visual Studio, Microsoft Office) ORACLE EXPRESS EDITION 10g and KNIME FOR DWDM	9 X 8 sq.m.	30	7,47,760/-
3	IT Computer Lab-3	3015	LENOVO think centre 2.7 GHz, 4 GB DDR- 2 RAM, 250 GB HDD,USB,Lan, Keyboard, Optical mouse,18.5'' TFT screen	Microsoft Campus license (Window 7,Visual Studio, Microsoft Office) Software Microprocessor Simulator 8086	9 X 8 sq.m.	30	7,47,760/-
4	IT Computer Lab-4	3014	LENOVO think centre 2.7 GHz, 4 GB DDR- 2 RAM, 250 GB HDD,USB,Lan, Keyboard, Optical mouse,18.5'' TFT screen	Microsoft Campus license (Window 7,Visual Studio, Microsoft Office)	9 X 8 sq.m.	30	7,47,760/-
5	IT Computer Lab-5	3013	LENOVO think centre 2.7 GHz, 4 GB DDR- 2 RAM, 250 GB HDD,USB,Lan, Keyboard, Optical mouse,18.5'' TFT screen	Microsoft Campus license (Window 7,Visual Studio, Microsoft Office) Oracle JDeveloper 10g and Tomcat 7.0	9 X 7.2 sq.m.	30	7,56,750/-
6	IT Computer Lab-6	1023	LENOVO think centre 2.7 GHz, 4 GB DDR- 2 RAM , 250 GB HDD,USB,Lan, Keyboard, Optical mouse,18.5'' TFT screen	Microsoft Campus license (Window 7,Visual Studio, Microsoft Office) Android Studio and Eclipse IDE with SDK	9 X 10 sq.m.	30	7,49,255/-

7	IT Computer Lab-7	1022	Lenovo think Centre Dual Core 2nd Generation, 2 GB DDR 3 RAM, 250 GB HDD TFT Screen, Keyboard, Mouse	Microsoft Campus license (Window 7, Visual Studio, Microsoft Office) Jdk1.8 and developer c++	9 X 11 sq.m.	25	5,69,625/-
8	IT Computer Lab-8	1021	Lenovo think Centre Dual Core 2nd Generation, 4 GB DDR RAM, 250 GB HDD TFT Screen, Keyboard, Mouse	Microsoft Campus license (Window 7, Visual Studio, Microsoft Office) Ubuntu 13.0	9 X 8 sq.m.	30	7,28,550/-
9	IT Computer Lab-9	1019	1. Lenovo Commercial Desktop, Core i3/7 <sup>th</sup> GEN/ 4GB RAM, 1TB HDD. Key Board. Optical Mouse. 19.5" LED Monitor 2. Interactive Whiteboard	Microsoft Campus license (Window 7, Visual Studio, Microsoft Office) SOFTWARE All Recent Software Such as android Hadoop various development tools	9 X 8 sq.m.	24	8,18,720/-
10	IT Computer Lab-10	1003	Lenovo think Centre, Desktop, Dual Core/ Second Generation/ DDR 3, 8 GB RAM, 250 GB HDD, 18.5" TFT Screen, Keyboard, Optical Mouse	Microsoft Campus license (Window 7, Visual Studio, Microsoft Office) IBM RFT AND RQM	8 X 9 sq.m.	35	12,12,025/-
11	Research Lab Lab-11	1005	Lenovo Commercial Desktop, Core i3/7 <sup>th</sup> GEN/ 4GB RAM, 1TB HDD. Key Board. Optical Mouse. 19.5" LED Monitor	Microsoft Campus license (Window 7, Visual Studio, Microsoft Office) SOFTWARE All Recent Software Such as android Hadoop various development tools . Biomedical/Biomatrix, Finger Print Scanner with Software	8 X 9 sq.m.	11	3,69,600/-
<b>Total Cost</b>							<b>1,01,24,635/-</b>

### Software details

Sl. No.	Description	Price (Rs.)
1.	NI Biomedical/ Biomatrix Lab	4,77,225/-
2.	IBM Rational SEED Quality Program (Software	2,24,720/-
3.	MATLAB Software	3,02,170/-
<b>Total</b>		<b>10,04,115/-</b>

  
 Dr. Latika Pinjarkar

HoD (IT)

**HOD**

Department of Information Technology (FIT)  
 Shri Shankaracharya Group of Institution,  
 SSTC, Junwant, Bhitai (C.G)

## Department of Applied Physics

### Research Facilities

S. No.	Name of Lab	Details of Equipments/ Instruments/Software Available	Quantity	Remarks
1.	Material Preparation Lab	Furnace, UV Lamp, Digital Weighing machine, Ball Mill Hydraulic Pressure Set up, Distillation Assembly, Chemical Bath Deposition, Tubular Furnance, Dimmerstat Magnetic Stirrer	One each	For preparation of semiconducting films, phosphor materials and ionic materials
2.	Instrumentation Lab	<b>Particle size analyzer</b> (Disc Centrifuge Model DC 12000) <b>HIOKI LCR Meter</b> (42Hz - 5MHz ) Model 3532, Digital Oscilloscope (DC1062CA), Digital Nanometer, Digital Pico ammeter, Digital Function Generator, Computer Interfaced multi meter, Digital Capacitance meter, Photo-luminescence Set-up Photo-conductivity Set-up	One each	For analysis and measurement purpose
3.	Simulation Lab	SIESTA, XCrySDen, Avogadro, Molden, Jmol, Xmgrace, ATK-Quantum Wise	All are installed	To perform Simulation and analysis of Electronic/Semi-conducting/Solid State

	Dual Core, 3 <sup>rd</sup> Generation, 4GB RAM,500GB HDD Computers	13	Ionic materials, hybrid bio-materials/hybrid materials
	16-Core Cluster	1	

**Plagiarism Check Software facility link:**

[https://turnitin.com/t\\_home.asp?r=12.8279928766972&svr=311&lang=en\\_us&](https://turnitin.com/t_home.asp?r=12.8279928766972&svr=311&lang=en_us&)

**Journals in Central Library**

1. Indian Journal of Physics
2. Indian Journal of Engg. & Materials Sciences
3. Pramana Journal of Physics
4. Bulletin of Material Science
5. Journal of Pure and Applied Physics
6. Resonance
7. Current Science
8. Journal of Pure Applied and Industrial Physics
9. Indian Journal of Radio and Space Physics

**HoD**

**HOD**

**Dept. of Appl. Physics**

**FET-SSGI**

**Shri Shankaracharya Technical Campus  
Junwani, Bhilai**

## Department Of Applied Chemistry

### List of Equipments

1. Double Beam UV Spectrometer PC based Model No. 2201 – Systronic make
2. Digital UV-Visible Spectrophotometer Range 340-960 nm. – EI make
3. Conductivity Meter microprocessor based. – EI Make
4. Double Distillation Assembly. – Lab Tech make
5. Water bath with Thermostat. – Temp Star make
6. Magnetic stirrer with hot plate. – Lab Tech make
7. Digital ph meter with combined ph Electrode. – EI make
8. Analytical Balance (single pan) Cap. 200gms. Sens. 0.1 mg. – Dhona make
9. Physical Balance Sens. 0.1 mg - K Roy & Comp. make
10. Centrifugal Machine
11. High Performance Vacuum Pump
12. Digital Oven
13. Abel's closed cup apparatus.
14. Penkey Marten's closed cup apparatus.
15. Redwood Viscometer.
16. Cloud & Pour Point apparatus.
17. Water & Soil Analysis Kit. EI/GI make
18. Digital Turbidity/Nipheometers. Ei/GI Make.
19. Karl's fishers' titrimeter.
20. Orsat analyzer.
21. Muffle furnace.
22. Bomb calorimeter.
23. Desiccators.
24. Biquartzs Polarimeter.
25. Digital Turbidity Meter
26. UV Fluorescence Analysis Cabinet
27. Hot plate

Supriya B  
26/02/22

Dr Supriya Biswas.






## Faculty of Management Studies

26.02.22

## MBA Computer Lab (Room No. 4105)

MBA lab comprises of :

Particulars	Quantity
Desktop Computer (Thinkcentre)	60
Printer	01
DLP Projector	01



Dr. Souren Sarkar  
Professor & Head  
FMS, SSTC, Bilhail

HEAD OF DEPARTMENT  
FACULTY OF MANAGEMENT STUDIES  
SHRI SHANKARACHARYA TECHNICAL CAMPUS

## List of Instruments

Name of Laboratory- Pharmacognosy Lab (6001)

S.No.	Name of Instrument	Quantity
1	HOT AIR OVEN	1
2	AUTO CLAVE	1
3	INCUBATOR	1
4	HEATING MAINTAL	3
5	WATER BATH	2
6	MOISCHER CONTAINER	1
7	VACCUM ROTOTRRY APP.	1
8	CENTRY FUGAL	1
9	B.O.D. INCUBATOR	1
10	ANALYTICAL WEIGT BALANCE	1
11	MIXCY	1
12	DESSICATOR	3
13	MUFFUL FURNESH	1
14	OKHALI	1
15	LEMENAR AIR FLOW	1
16	DISSTILATION UNIT	1
17	CHEMERA LUCIDA	11
18	P.H. METER	1
19	EYE PIECE	
20	STAGE MICROSCOPE	10
21	MICRO PIPETTE	2
22	PROJECTION MICROSCOPE	1
23	MICROSCOPE	5

## List of Instruments

Name of Laboratory- Pharmaceutics - 1 Lab (6203)

S.No.	Name of Instrument	Quantity
1	CENTRIFUGE	1
2	LAB. BOLL MILL	1
3	MAGNETIC STEARER	1
4	DIGITAL FRIBILITY TEST APP.	1
5	AMPULE CLARITY TEST APP.	1
6	MACHANICAL STEARER	4
7	ALL PURPOSE INSTRUMENT	1
8	BACTERIOLOGICAL INCUBATOR	1
9	HUMIDITY CHANBER	1
10	ANALYTICAL BALANCE	2
11	AMPULE WASHING MACHINE	1
12	WATER BATH	1
13	HOT PLATE	1
14	TINCHURE PRESS	1
15	HAND GRINDER	1
16	MACHENICAL ALGINATOR	2
17	HARDNESS TESTER (MONCINTO)	1
18	HARDNESS TESTER (P'FIZER))	1



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Shri Shankaracharya Technical Campus  
Faculty of Pharmaceutical Sciences  
Junwani, Nehru Nagar, Bhilai (C.G.)

**SSTC-SSGI FACULTY OF PHARMACEUTICAL SCIENCES JUNWANI, BHILAI**

**List of Instruments**

Name of Laboratory- Pharma Analysis Lab (6005)

S.No.	Name of Instrument	Quantity
1	Heating Mantal	2
2	Melting Point App.	1
3	Megnatic Stirer	1
4	Ph Meter	1
5	Ph Electrode	2
6	Vacum Pump	2
7	Water Bath	1
8	Water Distilation Steel	1

**SSTC-SSGI FACULTY OF PHARMACEUTICAL SCIENCES JUNWANI, BHILAI**

**List of Instruments**

Name of Laboratory- Pharmacology Lab (6106)

S.No.	Name of Instrument	Quantity
1	SHERING ROTATORY DRUM	10
2	STUDENT ORGAN BATH	17
3	FRONTAL WRITING LEVER	15
4	AQUERIUM AIR PUMP	4
5	ANALGESIOMETER	1
6	ANIMAL CAGE	6
7	ROTA ROD	1
8	RABBIT HOLDER	2
9	ACTO PHOTOMETER	1
10	CONVALSOMETER	1
11	HISTAMIN CHEMBER	1
12	PLETHISMOGRAPH	1
13	MUSCLE ELECTRODES	1
14	LOCAS MOIST CHAMBER	1
15	MYOGRAPHIC LEVER	1
16	DIGITAL BALANCE	1
17	STRALING HEART LEVER	5



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**SSTC-SSGI FACULTY OF PHARMACEUTICAL SCIENCES****List of Instruments**

Name of Laboratory- Pharmaceutics Lab (6202)

s. no	Name of Instruments	Quantity
1	hot air oven	1
2	homogeniser	4
3	Vaccum Rottatry App (set)	1
4	Bottle filling machine	1
5	Disintegration Test App. Single set	1
6	Disintegration Test App. Double set	1
7	conical pereolator	3
8	Autoclave	2
9	ball mill	1
10	machanical sterear	4
11	seive shekher 1 set	1
12	water bath	1
13	tablet coating cum polishing pan	1
14	cone blander	1
15	megnetic Streerar (without megnetic)	9
16	Tablet punching machine	2
17	Ampoule clarity test app	1
18	Crimping Machine (Tube)	1
19	Digital Viscometer app	1
20	hardness Tester	1
21	Pfizer Hardness Tester	1
22	Digital weight machine	1

**SSTC-SSGI FACULTY OF PHARMACEUTICAL SCIENCES JUNWANI, BHILAI****List of Instruments**

Name of Laboratory- Microbiology Lab (6103)

s. no	Name of Instruments	Quantity
1	BOD Incubator	1
2	orbital shaker	1
3	Asptic cabitate	1
4	Hot air oven	2
5	Incubator	2
6	Heating mantal	4
7	Digital working	1
8	water bath Incuburator Shekar	1
9	serological water bath	1
10	Auto clave	2
11	hot plate	1
12	Laminar Air flow	1

  
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**SSTC-SSGI FACULTY OF PHARMACEUTICAL SCIENCES JUNWANI, BHILAI**

**List of Instruments**

Name of Laboratory- Machine Room (6004)

s. no	Name of Instruments	Quantity
1	Univeresal Hot air oven	1
2	Bottle Sealing Machine	1
3	Muffle Furnace	1
4	Tablet punching machine	1
5	Glass Distillation Assembly	1
6	Water bath	1
7	Vaccum Rottatry Evaporotar)	1
8	Sieve Shaker	1
9	Water Bath	1
10	Analytical Balance	1
11	Incinerator	1
12	Tube Sealing machine	1
13	Microfome	1

**SSTC-SSGI FACULTY OF PHARMACEUTICAL SCIENCES JUNWANI, BHILAI**

**List of Instruments**

Name of Laboratory- Pharmaceutics Lab (6207)

s. no	Name of Instruments	Quantity
1	magnetic Stirer	1
2	Mechanical Agitator	2
3	Heating mentle	1
4	Ultrasonic Probe Sonicalor	1
5	Centrifuge	1
6	Friability test Apparatus	1
7	Rectangular het plate	1
8	Univeresal Hot air oven	2
9	Capsule drilling machine	1
10	Seving machine motor	4
11	Heating plate	2
12	ball mill	2
13	Auto clave Machine	1
14	Water Batt	1
15	Hot plate	2
16	Homogeniser	6
17	Ampoule Clarity test Apparatus	2
18	BOD Incubator	1
19	Refrigerator	1




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Junwani, Nehru Nagar, Bhilai (C.G.)

SSTC-SSGI FACULTY OF PHARMACEUTICAL SCIENCES JUNWANI, BHILAI

List of Instruments

Name of Laboratory- Central Instrument Room (6006)

s. no	Name of Instruments	Quantity
1	Uv Spectro photometer	1
2	BOD Incubator	1
3	Cooling Centrifugel	1
4	Treamsasia	1
5	Digital flame Photometer	1
6	Compressor Unit(Esico)	1
7	Rotary vane Vaccume pump	1
8	LG Oven	1
9	Electronic Balance (contech)	1
10	Heating Mentle	1
11	Digital Turebidity meter (EI)	1
12	Digital Condivity Meter (EI)	1
13	Auto karel fischere fitrimeter	1
14	Vacuum Rotary evaporatore	1
15	High performance Liquid Curcomat ogrcaphy	1

  
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Junwani, Nehru Nagar, Bhilai (C.G.)

**SSTC-SSGI FACULTY OF PHARMACEUTICAL SCIENCES JUNWANI, BHILAI**

**List of Instruments**

Name of Laboratory- Pharmaceutics Lab (6103)

s. no	Name of Instruments	Quantity
1	Hot air oven	2
2	Bacteriological Incubator	1
3	Vacuum pump	2
4	Hot plate (Big Size)	1
5	Heating Mantle	1
6	Melting point App.	2
7	Magnetic Stirrer	1
8	Distillation Unit (Steel)	1
9	water bath	1
10	Digital balance	1
11	Gas pipe Line	1
12	Incubator	1
13	Mechanical Stirrer	1
14	Periodic Chart	1
15	Analytical Balance	1
16	Analytical weight bore (250 gm)	1
17	Atomic model set	1
18	Bunsen burner	1
19	Buret clamp	1
20	Buret Stand	1
21	Corsible tonge	1
22	Dispensing balance (50 & 100 g.m)	1
23	Desicator	1
24	Kipps Apparatus	1
25	physical Balance	1
26	Physical weight Bore	1
27	Photo Electronic Calorimeter	1
28	P.H Meter	1
29	Single pan Balance(Dhona)	1
30	water Bath	1
31	Hot plate	4
32	Heating Mantle	1
33	Melting point app.Vacuum Pump	2
34	Aseptic Cabinet	1
35	Spatula	42
36	Test Tube Holder	39
37	Tripod Stand	30
38	wire gage	12
39	centrifuge	1
40	pipet stand	5
41	Refrigerator	1
42	Rubber tube(8 mm)	1
43	Triple Beam Balance	2
44	Test tube Stand	37
45	Thermometer(110°C & 360°C)	16 & 7
46	washing Bottle( cap 500 ml)	5

*AKha*

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Faculty of Pharmaceutical Sciences  
Junwani, Nehru Nagar, Bhilai (C.G.)

## SSTC-SSGI FACULTY OF PHARMACEUTICAL SCIENCES

### List of Instruments

Name of Laboratory- Pharmaceutics Lab (6103)

s. no	Name of Instruments	Quantity
1	Water Bath (Copper R.B)	12
2	Mechanical Strrer	2
3	Colorimeter	2
4	Stop watch	2
5	Melting Point App.	1
6	Rubber bulb	8



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Junwani, Nehru Nagar, Bhilai (C.G.)





# SHRI SHANKARACHARYA TECHNICAL CAMPUS SHRI SHANKARACHARYA GROUP OF INSTITUTIONS

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An ISO 9001:2015 Certified Institution

## DEPARTMENT OF CIVIL ENGINEERING

### Computer- Lab

#### LIST OF EQUIPMENTS/ MACHINES

S. No.	Name of Equipment/ Machine	Quantity	Cost (in Rs.)
01	LENOVO THINK CENTER DESKTOP DUAL CORE/ 2GB DDR 3 RAM/ 320 GB HDD/ KEY BOARD/ MOUSE 18.5" TFT SCREEN	9	195300.00/- Rs.
02	DELL USB MOUSE	3	990.00/- Rs.
03	LENOVO THINK CENTER DESKTOP DUAL CORE/ 2GB DDR 3 RAM/ 250 GB HDD/ KEY BOARD/ OPTICAL MOUSE 18.5" TFT SCREEN	30	630000.00/- Rs.
04	ANSYS ACADEMIC TEACHING INTRODUCTORY VERSION 12.1.32000 NODES	25 PERPETUAL LICENSES	425000.00/- Rs.
05	BeCN INDIA- COMBINED WATER GEMS SEWER GEMS MICRO STATION STORM CAD MX SUITE POWER CIVIL POWER MAP POWER REBAR BENTLEY ARCHITECT BENTLEY STRUCTURAL	5 SUBSCRIPTION	536000.00/- Rs.
06	SAP 2000 SOFTWARE FOR STRUCTURAL & ENGINEERING DESIGN	01 (10 USERS)	364817.00/- Rs.
07	DAIKIN 1.5 TON 3 STAR DTC50SRV162	2 PCS	68000.00/- Rs.
08	ACADEMIC PERPETUAL OFFERING SOLUTION (ACADEMIC BUNDLE) CONSISTING OF STAAD Pro SELECT SUBSCRIPTION: (THREE YEAR)	5 SUBSCRIPTION	72500.00/- Rs.
09	EPSON EB- SO2 LCD PROJECTOR WITH CARRY CASE	01	29959.00/- Rs
10	BENTLEY CLASSROOM SUBSCRIPTION PROGRAME FOR FIVE YEARS WITH 50 PLUS SOFTWARE	15	802400.00/-rs
	<b>Total</b>		<b>2322566.00/- Rs.</b>

HoD  
Deptt of Civil Engg  
Faculty of Engg & Tech



श्री शंकराचार्य तंत्रिका

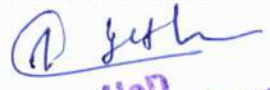
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Prof. In-Charge

**HOD-CIVIL-FET**

  
**HOD**  
Deptt of Civil Engg  
Faculty of Engg & Tech



SHRI SHANKARACHARYA TECHNICAL CAMPUS  
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**DEPARTMENT OF CIVIL ENGINEERING**

**Computer Aided Structure- Lab**

**LIST OF EQUIPMENTS/ MACHINES**

S. No.	Name of Equipment/ Machine	Quantity	Cost (in Rs.)
01	DIGITAL STRAIN INDICATOR	01	40687.00/- Rs.
02	ELASTIC PROPERTIES OF BEAM APPARATUS	01	18327.00/- Rs.
03	MAXWELL's LAW OF RECIPROCAL DEFLECTION APPARATUS	01	24800.00/- Rs.
04	UNIVERSAL FRAME WITH VARIETY OF CURVED BARS	01	71110.00/- Rs.
05	UNIVERSAL FRAME WITH VARIETY OF PORTAL FRAMES	01	75550.00/- Rs.
06	WEIGHTS AND HANGERS TO APPLY LOADS	01	12000.00/- Rs.
	<b>Total</b>		<b>242474.00/- Rs.</b>

  
Prof. In-Charge

  
HOD-CIVIL-FET  
Deptt of Civil Engg  
Faculty of Engg & Tech



SHRI SHANKARACHARYA TECHNICAL CAMPUS  
SHRI SHANKARACHARYA GROUP OF INSTITUTIONS

[Estb. 1999]

Managed by Shri Gangajali Education Society, Bhilai  
Approved by AICTE & Affiliated to CSVT University, Bhilai  
NBA Accredited for B.E. (Mech, EE, EEE, IT) Courses  
Accredited by NAAC with "A" Grade  
An ISO 9001:2015 Certified Institution

**DEPARTMENT OF CIVIL ENGINEERING**

**Basic Civil Engineering- Lab**

**LIST OF EQUIPMENTS/ MACHINES**

S. No.	Name of Equipment/ Machine	Quantity	Cost (in Rs.)
1	OVEN THERMOSTATICALLY CONTROLLED (14*14)	1	6706.00/- Rs.
2	RANGING ROD 2MT ON FOLD	10	3825.00/- Rs.
3	EM STAFF 5MTR	5	9116.00/- Rs.
4	PRISMATIC COMPASS WITH STAND	2	2295.00/- Rs.
5	CUBE MOULD 150*150*150	12	8976.00/- Rs.
6	CUBE MOULD 70.6*70.6*70.6	9	3136.00/- Rs.
	<b>Total</b>		34054.00/- Rs.

Prof. In-Charge

**HOD-CIVIL-FET**  
HoD  
Deptt of Civil Engg  
Faculty of Engg & Tech

DEPARTMENT OF MECHANICAL ENGINEERING

CENTRAL WORKSHOP

**MACHINE SHOP**

SR.NO.	TOOLS & EQUIPMENT	QTY(No.)
1.	Gear Type Lathe Machine	01
2.	Lathe Machine Norton Type (Centre Lathe)	08
3.	Crank Type Shaper Machine	02
4.	Milling Machine Universal	02
5.	Drill Machine Sensitive	02
6.	Power Saw 14" Machine	01
7.	Hand Drill Machine Stand	01
8.	Grinding Machine(Bench Grinder)	02
9.	2 HP AC Motor	14
10.	1 HP AC Motor	02
11.	Hand Shear	01
12.	Hand Grinder Machine	01
13.	Milling Vice	01
14.	Drill Vice	01
15.	Shaper Machine	02
16.	Sample Job Table	01
17.	CNC MILLING	01
18.	3-D PRINTING	01

**WELDING SHOP**

SR.NO.	TOOLS & EQUIPMENT	QTY(No.)
1.	Welding transformer	01
2.	Welding Torch	02
3.	Cutting Torch	02
4.	Oxygen and Acetylene Cylinder	02
5.	Bench Vice	20
6.	Working Table	06
7.	Fire Bricks	100
8.	Sample Job Table	01
9.	Regulator	02
10.	Wire Brush	12
11.	Chipping hammer	06
12.	Tongs	12
13.	Hand screen	05
14.	Hand gloves	02 pair
15.	Apron	02 pair



*[Handwritten Signature]*

*[Handwritten Signature]*

Analogue & Digital Modulation/Demod. Equipments  
 Data formatting kits, PCB designing, Spectrum Analyzer

Equipment Details				
Department	Name of Equipment	Make	Quantity	Sector to which it is related
ETC	8-Bit Variable Data Generator trainer kit	scientech	1nos	Communication Lab
ETC	AM modulator and demodulator trainer kit	Omega	2nos	Communication Lab
ETC	AM modulator and demodulator trainer kit	Scientech	2nos	Communication Lab
ETC	AM transmitter & Receiver trainer kit	Scientech	2nos	Communication Lab
ETC	AM transmitter & Receivertrainer trainer kit	Scientech	2nos	Communication Lab
ETC	AM transmitter & Receivertrainer trainer kit	Omega	2nos	Communication Lab
ETC	ASK modulation and demodulation trainer kit	silicon micro systems	2nos	Communication Lab
ETC	Audio input modul	crown	2nos	Communication Lab
ETC	Black and white TV and trainer kit	Benix	1nos	Communication Lab
ETC	Colour TV and trainer kit	Benix	1nos	Communication Lab
ETC	Computer Pentium (Dual Core Processor)	Lenovo	2 nos	Communication Lab
ETC	CRO-25MHZ	Scientech	2nos	Communication Lab
ETC	CRO-30MHZ	Microteck	2nos	Communication Lab
ETC	CRO-30MHZ	Microteck	2nos	Communication Lab
ETC	CRO-30MHZ	Scientific	1nos	Communication Lab
ETC	CRO-30MHZ	Scientific	4nos	Communication Lab
ETC	CRO-50MHZ	Scientific	2nos	Communication Lab
ETC	Data formatting & carrier modulation transmitting & receiver kit	Scientech	2nos	Communication Lab
ETC	Data formatting & carrier modulation transmitting & receiver kit	Scientech	2nos	Communication Lab
ETC	Data conditioning and carrier modulation transmitter kit	Falcon	1nos	Communication Lab
ETC	Data Conditioning&Career Modulation Kit	Falcon	1nos	Communication Lab
ETC	Data reconditioning and carrier demodulation receiver kit	Falcon	1nos	Communication Lab
ETC	DataReconditioning&Career Demodulation Kit	Falcon	1nos	Communication Lab
ETC	delta, Modulation & demodulation kit	Omega	2nos	Communication Lab
ETC	Delta,Adaptive Delta&Delta singma Modulation kit	Scientech	1nos	Communication Lab
ETC	Delta,Adaptive Delta&Delta singma Modulation kit	Scientech	1nos	Communication Lab
ETC	DPSK modulation and demodulation trainer kit	silicon micro systems	2nos	Communication Lab
ETC	FDM Trainer kit	Omega	2nos	Communication Lab
ETC	FM mod and demodulation trainer kit	scientech	2nos	Communication Lab
ETC	FM modulator and demodulator trainer kit	Scientech	2nos	Communication Lab

ETC	FM trans and receiver traine rkit	Scientech	1nos	Communication Lab
ETC	FM trans and receiver trainer kit	Falcon	1nos	Communication Lab
ETC	FM Transmitter&Receiver Trainer Kit	Omega	2nos	Communication Lab
ETC	Frequency shift keying (FSK) modulation and demodulation kit	omega	2nos	Communication Lab
ETC	FSK modulation and demodulation trainer kit	omega	2nos	Communication Lab
ETC	FSK modulation and demodulation trainer kit	silicon micro systems	2 nos	Communication Lab
ETC	Function Generator	scientech	2nos	Communication Lab
ETC	Function Generator	scientech	2nos	Communication Lab
ETC	function Generator	Scientific	4nos	Communication Lab
ETC	PAM mod and demodulation trainer kit	Omega	2nos	Communication Lab
ETC	PAM/PPM/PWM mod and demodulation trainer kit	scientech	1nos	Communication Lab
ETC	PAM/PPM/PWM mod and demodulation trainer kit	scientech	1nos	Communication Lab
ETC	PAM/PPM/PWM mod and demodulation trainer kit	Falcon	1nos	Communication Lab
ETC	PCM Transmitter&Receiver Trainer Kit	Falcon	2nos	Communication Lab
ETC	Phase shift keying (PSK) modulation and demodulation kit	Omega	2nos	Communication Lab
ETC	PPM mod and demodulation trainer kit	Omega	2nos	Communication Lab
ETC	Pulse code demodulation receiver kit	Falcon	1nos	Communication Lab
ETC	Pulse code modulation transmitter kit	Falcon	1nos	Communication Lab
ETC	PWM mod and demodulation trainer kit	Omega	2nos	Communication Lab
ETC	QAM Trainer kit	scientech	1nos	Communication Lab
ETC	QPSK modulation and demodulation trainer kit	silicon micro systems	2nos	Communication Lab
ETC	R-C Transmission line trainer kit	Omega	2nos	Communication Lab
ETC	Sampling and reconstruction trainer kit	Scientech	1nos	Communication Lab
ETC	Sampling and reconstruction trainer kit	Scientech	1nos	Communication Lab
ETC	Sampling and reconstruction trainer kit	Scientech	1nos	Communication Lab
ETC	TDM pulse amplitude modulation and demodulation trainer kit	scientech	1nos	Communication Lab
ETC	TDM pulse amplitude modulation and demodulation trainer kit	scientech	1nos	Communication Lab
ETC	TDM Pulse Code Modulation &Demodulation Trainer Kit	Scientech	2nos	Communication Lab
ETC	OPERATIONAL AMPLIFIER DISIGNER		2	Analog Circuit Lab
ETC	DIFFERENTIAL AMPLIFIER	Electronics	2	Analog Circuit Lab
ETC	V/I FEEDBACK AMPLIFIER	Scientech	2	Analog Circuit Lab
ETC	SCHIMITT TRIGGER	RISH Multi	2	Analog Circuit Lab
ETC	STUDY OF MULTIVIBRATOR	Microtech	1	Analog Circuit Lab
ETC	LINEAR IC TRAINER	Crown	2	Analog Circuit Lab
ETC	OPERATIONAL AMPLIFIER CHARACTERISTIS	Scientech	1	Analog Circuit Lab
ETC	CLASS-C- AMPLIFIER	Microtech	1	Analog Circuit Lab
ETC	SUMMER/SUBTRACTOR/INTEGRATOR	Electronics	1	Analog Circuit Lab
ETC	TIMER APPLICATION NE 555	Scientech	2	Analog Circuit Lab
ETC	SAMPLE AND HOLD CICIUT	RISH Multi	2	Analog Circuit Lab
ETC	TRANSFORMER COUPLED AMPLIFIER	Microtech	1	Analog Circuit Lab
ETC	TWO STAGE TRANSFORMER COUPLED	Crown	1	Analog Circuit Lab
ETC	TRANSISTOR RF (LC)OSCLATOR	Sincom	2	Analog Circuit Lab
ETC	TRANSISTOR WEIN BRIDGE OSCLATOR	Sincom	1	Analog Circuit Lab
ETC	FREQUENCY TO VOLTAGE CONVERTOR	Sincom	1	Analog Circuit Lab
ETC	H PARAMETERS OF TRANSISTOR	Sincom	2	Analog Circuit Lab
ETC	TRANSISTOR PUSH PULL AMPLIFIER	Sincom	1	Analog Circuit Lab

ETC	TRANSISTORISED HARTLY & COLPITTAS PUSH PULL	Sincom	1	Analog Circuit Lab
ETC	TRANSISTOR PUSH PULL AMPLIFIER	Sincom	1	Analog Circuit Lab
ETC	WEIN BRIDGE OSCILLATOR	Sincom	1	Analog Circuit Lab
ETC	RF TUNNED AMPLIFIER	E & E	1	Analog Circuit Lab
ETC	CRYSTAL OSCILLATOR	E & E	2	Analog Circuit Lab
ETC	DOUBLE STAGE RC COUPLED	Sincom	1	Analog Circuit Lab
ETC	F.E.T. TRANSISTOR AMPLIFIER	Lab Electronics	1	Analog Circuit Lab
ETC	TRANSISTOR AMPLIFIER TYPE	Sciencetech	1	Analog Circuit Lab
ETC	VOLTAGE TO FREQUENCY CONVERTER	Lab Electronics	1	Analog Circuit Lab
ETC	TRANSISTOR EMITTER FOLLOWER	Sciencetech	1	Analog Circuit Lab
ETC	TWO STAGE RC COUPLED AMPLIFIER	Sciencetech	1	Analog Circuit Lab
ETC	TWO STAGE RC PHASE SHIFT	Sciencetech	1	Analog Circuit Lab
ETC	SINGLE STAGE RC COUPLED AMPLIFIER	Sciencetech	1	Analog Circuit Lab
ETC	REGULATED POWER SUPPLY USING THE TRANSISTOR	E & E	1	Analog Circuit Lab
ETC	TWO STAGE TRANSFORMER COUPLED	Sciencetech	1	Analog Circuit Lab
ETC	TRANSISTOR AMPLIFIER	Sciencetech	1	Analog Circuit Lab
ETC	ANALOG LAB CIRCUIT	Sciencetech	8	Analog Circuit Lab
ETC	D.B.OP-AMP CADDER/SCALER	Sciencetech	1	Analog Circuit Lab
ETC	D.B.DIFF-AMP	Sciencetech	1	Analog Circuit Lab
ETC	D.B.OP-AMP	Sciencetech	1	Analog Circuit Lab
ETC	D.B.X-TER SERIES	Sciencetech	1	Analog Circuit Lab
ETC	D.B.X-TER SHUNT	Sciencetech	1	Analog Circuit Lab
ETC	D.B. MONOSTABLE MULTIVIBRATOR	Sciencetech	2	Analog Circuit Lab
ETC	D.B. BISTABLE MULTIVIBRATOR	Sciencetech	2	Analog Circuit Lab
ETC	D.B. ASTABLE MULTIVIBRATOR	Sciencetech	2	Analog Circuit Lab
ETC	D.B. MULTIVIBRATOR	Sciencetech	2	Analog Circuit Lab
ETC	CRO 30 MHz	Scientific HM 203 M	4	Fiber Optics Lab
ETC	CRO 30 MHz	Scientific HM 203 M	3	Fiber Optics Lab
ETC	Continuity Tester	Sciencetech	1	Fiber Optics Lab
ETC	Digital Multimeter 4½ Digit	Scientific HM 5011-3	1	Fiber Optics Lab
ETC	Function Generator 1 MHz	Scientific ST 4060	5	Fiber Optics Lab
ETC	Fiber Optic Trainer	Scientific ST - 2502	1	Fiber Optics Lab
ETC	Fiber Optic Trainer	Scientific ST - 2502	2	Fiber Optics Lab
ETC	Fiber Optic Trainer Set	Falcon	1	Fiber Optics Lab
ETC	Fiber Optic Trainer Lab-1 set	Scientific ST - 2501,02,06,51	1	Fiber Optics Lab
ETC	Fiber Optic Trainer Kit	Scientific ST - 2503	2	Fiber Optics Lab
ETC	Fiber Optic Kit-Link D	Microtech	1	Fiber Optics Lab
ETC	Fiber Optical Transmitter SFH 450	Microtech SFH 450	1	Fiber Optics Lab
ETC	Fiber Optical Transmitter PD SFH 551	Microtech SFH 450	1	Fiber Optics Lab
ETC	Connectorization Splicing Tool Kit	Microtech	1	Fiber Optics Lab
ETC	Computer System	Lenovo	2	Fiber Optics Lab
ETC	Function Generator	Sciencetech	2	Electronic Workshop
ETC	Regulated Power Supply	Crown	3	Electronic Workshop
ETC	DMM (Bench Type)	microtech	2	Electronic Workshop
ETC	DMM (Small)	microtech	7	Electronic Workshop
ETC	Digital Ic Tester	microtech	1	Electronic Workshop
ETC	PCB Drill Machine	cresecent	1	Electronic Workshop
ETC	DMM (Bench Type)	cresecent	2	Electronic Workshop
ETC	PCB Drill Machine	cresecent	1	Electronic Workshop
ETC	PCB Sharing Machine	cresecent	1	Electronic Workshop
ETC	LCR Meter	Microtech	1	Electronic Workshop
ETC	Soldering Station	Microtech	2	Electronic Workshop
ETC	Magnifier Lamp	Microtech	2	Electronic Workshop
ETC	Film Making Unit	Microtech	1	Electronic Workshop
ETC	U V Exposure Machine	Microtech	1	Electronic Workshop
ETC	Curring Machine (Oven)	Microtech	1	Electronic Workshop
ETC	A/D Convertor	Sincom	4	Digital Electronic. Ckt
ETC	D/A Convertor	Sincom	4	Digital Electronic. Ckt
ETC	BCD to 7 Sgment Decoder	Sincom	1	Digital Electronic. Ckt
ETC	BCD to seven Sgment Decoder	Sincom	1	Digital Electronic. Ckt



ETC	Parity Generator	Sincom	1	Digital Electronic. Ckt
ETC	Parity Generator	Sincom	1	Digital Electronic. Ckt
ETC	Digital Lab	Scientech	4	Digital Electronic. Ckt
ETC	Digital Lab	Scientech	4	Digital Electronic. Ckt
ETC	Logic Gates Trainer	Sincom	1	Digital Electronic. Ckt
ETC	UP-DN Counter	Sincom	1	Digital Electronic. Ckt
ETC	MOD-N- Counter	Sincom	1	Digital Electronic. Ckt
ETC	Logic Gates Trainer	Sincom	1	Digital Electronic. Ckt
ETC	Doughter-Board Encoder-Decoder	Scientech	1	Digital Electronic. Ckt
ETC	Doughter-Board Flip-Flop	Scientech	3	Digital Electronic. Ckt
ETC	Doughter-Board Mux- Demux	Scientech	1	Digital Electronic. Ckt
ETC	Doughter-Board Binary Counter	Scientech	3	Digital Electronic. Ckt
ETC	Doughter-Board Ripple Counter	Scientech	2	Digital Electronic. Ckt
ETC	Doughter-Board Shift Register	Scientech	1	Digital Electronic. Ckt
ETC	Doughter-Board Code Conversion	Scientech	3	Digital Electronic. Ckt
ETC	Doughter-Board Logic Gates	Scientech	2	Digital Electronic. Ckt
ETC	Dought Board Binary Adder Subtractor	Scientech	2	Digital Electronic. Ckt
ETC	BCD to 7 Sigmoid Decoder	Scientech	3	Digital Electronic. Ckt
ETC	Decoder/ Demulti Plexer	Scientech	3	Digital Electronic. Ckt
ETC	Digital Multimeter	Scientech	19	Digital Electronic. Ckt
ETC	Analog Multimeter		1	Digital Electronic. Ckt
ETC	T & D Flip-Flop Using J&K Flip Flop	Microtek Enterprises	2	Digital Electronic. Ckt
ETC	Even & Odd Parity Checker	Microtek Enterprises	2	Digital Electronic. Ckt
ETC	Microwave Training Kit	Nvis	4	Microwave Lab
ETC	Microwave Test Bench	Scientech	2	Microwave Lab
				Microwave Lab
ETC	Microwave Test Bench(Klystron Based)	Scientech	3	
ETC	Microwave Test Bench(Gunn Based)	Scientech	3	Microwave Lab
ETC	Cathode Ray Oscilloscope (20 Mhz)	Scientech	1	Microwave Lab
ETC	Cathode Ray Oscilloscope (20 Mhz)	Scientech	1	Microwave Lab
ETC	Cathode Ray Oscilloscope (20 Mhz)	Scientech	1	Microwave Lab
ETC	DSO 150 Mhz	scientech	1	Advanced Communication
ETC	Analog & Digital Storage Oscilloscope	Omega	1	Advanced Communication
ETC	Specturam Analyzer	Scientech	1	Advanced Communication
ETC	Power Scope with power supply	Scientech	1	Advanced Communication
ETC	Antenna Trainer Kit	Scientech	1	Advanced Communication
ETC	Satellite Communication Trainer Kit	Omega	1	Advanced Communication
ETC	Telephone Trainer Kit	silicon micro systems	1	Advanced Communication
ETC	Specturam Analyzer Application Demo Kit	Scientech	1	Advanced Communication
ETC	LG 14" CTV	Benix	1	Advanced Communication
ETC	LG DVD Player	Benix	1	Advanced Communication
ETC	Experimental Kit for Specturam Analyzer	Lenovo	1	Advanced Communication
ETC	CDMA Trainer Kit	Scientech	1	Advanced Communication
ETC	GSM Trainer Kit	Microteck	1	Advanced Communication
ETC	Wireless LAN Demo	Microteck	1	Advanced Communication
ETC	Bluetooth Link Demo	Scientific	1	Advanced Communication
ETC	Computer System	Scientific	4	Advanced Communication
ETC	EpaBx Trainer Kit	Scientific	1	Advanced Communication
ETC	Logic Analyzer (24 Channel)	Scientech	1	Advanced Communication
ETC	Mobile Phone Trainer Kit	Scientech	1	Advanced Communication
ETC	ECG Trainer kit	Falcon	1	Advanced Communication

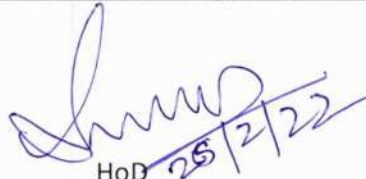
ETC	Rectifier & filter characteristics	Falcon	2	Advanced Communication
ETC	CRO	Falcon	1	Advanced Communication
ETC	Bread board trainer kit	Falcon	12	Advanced Communication
ETC	Digital multimeter	Microtech	4	Electronic Device Lab
ETC	Rectifier & filter characteristics	Electronics	3	Electronic Device Lab
ETC	FG	Sciencetech	4	Electronic Device Lab
ETC	Digital multimeter	RISH Multi	10	Electronic Device Lab
ETC	FG	Microtech	4	Electronic Device Lab
ETC	Dual power supply	Crown	16	Electronic Device Lab
ETC	Cathod ray oscilloscope	Sciencetech	1	Electronic Device Lab
ETC	Dyna8085 & SMPS	Anshuman	5	Microprocessor
ETC	Study card -8253dyna timer	Anshuman	1	Microprocessor
ETC	Study card -8255 Dyna –PIO /2	Dynalog	1	Micro Processor - I
ETC	Study card -8279 Dyna KBDISP	Dynalog	1	Micro Processor
ETC	VLSI design Tool (15 user)	Xilinx	15	Simulation Lab
ETC	VLSI design Tool Set	Xilinx	1	Simulation Lab
ETC	(CPLD/FPGA) Prog. Kit	Xilinx	3	Simulation Lab
ETC	Multi sim (13 user)	Cadance	13	Simulation Lab
ETC	Commsim (15 user)	Cadance	15	Simulation Lab
ETC	Monoid 1.0	Menter Graphics	1	Simulation Lab
ETC	Lab view	National Instrument	200	Simulation Lab
ETC	VERILOG	Xilinx	1	Simulation Lab
ETC	DIALS	TMS	5	Simulation Lab
ETC	CPLD/FPGA XILINX	Xilinx	1	Simulation Lab

**Shri Shankracharya Technical Campus, Junwani Bhilai**  
**Department of Computer Application(FET)**

**Details of Computer Laboratory are given below:-**

S.No.	Name of the Laboratory	Name of Equipments	Quantity	Cost of Equipments in Rs.
1	Programming lab for C/C++/Java/Unix	Lenovo Think centre Commercial dual Core EC5300@3.00Ghz,2 GB RAM,320GB HDD,18.5 "TFT Screen,Keyboard, Mouse	30	600000
2	Database lab (for SQL/PLSQL/VB based Applications)	Lenovo Think centre Commercial dual Core EC5300@3.00Ghz,2 GB RAM,320GB HDD,18.5 "TFT Screen,Keyboard, Mouse	30	600000
3	Python lab	Lenovo Think centre Commercial Core- i3 6th generation ,4 GB DDR-4 RAM,5000GB HDD,18.5 "TFT Screen,Keyboard, Mouse	30	updatation estimated cost 19897/-Rs.@ Per System Total Coase(596910/-Rs)
	Total No. of Laboratory-4		Total-120	1796910

krishna Kant Dubey  
 Lab Incharge

  
 HoD 25/2/22  
 (Computer Application)  
**HOD**  
**Dept. of Computer Application (FET)**  
**Shri Shankaracharya Group of Institutions**  
**Shri Shankaracharya Technical Campus, B.**



# SHRI SHANKARACHARYA TECHNICAL CAMPUS

Shri Shankaracharya Group of Institutions

Faculty of Engineering & Technology

(Managed by Shri GangaJal Education Society, Bhilai)

JUNWANI, BHILAI-490 020 (CHHATTISGARH), INDIA

Phone: 0788-2291605, 2291607, Fax: 0788-2291606, E-mail: [ssgi@ssgi.edu.in](mailto:ssgi@ssgi.edu.in)



## DEPARTMENT OF MECHANICAL ENGINEERING

### List of Laboratories

S. No.	Lab Name	Cost
1	Cad-Cam Lab	3806517/-
2	Material Testing Lab	636900/-
3	Internal Combustion Engine Lab	951710/-
4	Automobile Engineering Lab	166650/-
5	Dynamics of Machines and Kinematics of Machines Lab	343225/-
6	Mechanical Measurement Lab	122500/-
7	Metrology Lab	351175/-
8	Robotics Lab	271950/-
9	Heat and Mass Transfer Lab	291388/-
10	Refrigeration and Air Conditioning Lab	588400/-
11	Thermodynamics Lab	35939/-
12	Energy Conversion System Lab	86430/-
13	Engineering Mechanics Lab	54140/-
14	Fluid Mechanics and Machinery lab	762149/-
15	Central Work Shop	828357/-
	<b>Total Cost in Rs.</b>	<b>9297430/-</b>

  
HoD

HOD

Mechanical Engg. Department  
FET, SSGI, SSTC, Bhilai



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## DEPARTMENT OF MECHANICAL ENGINEERING

### CAD-CAM LAB

#### Cost of Laboratory

S. No.	List of Equipment's and Software's	Cost
1	Lenovo Think Center Desktop	1649260/-
2	Unigraphics NX 4.0 Advance Software Package	900000/-
3	Pro-E Wildfire 5.0 Software Package	669536/-
4	CREO- Parametric 3.0	587721/-
	<b>Total Cost in Rs.</b>	<b>3806517/-</b>

Prof. In charge

**HoD**  
HOD

Mechanical Engg. Departmen  
FET, SSGI, SSTC, Bhitai



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## DEPARTMENT OF MECHANICAL ENGINEERING

### CAD-CAM LAB

#### List of Software's

S. No.	List of Software's
1	Developer C and C++
2	Microsoft Office Package
3	Unigraphics NX Advance Software Package
4	Pro-E Wildfire 5.0 Software Package
5	CREO- Parametric 3.0 Software Package
6	CNC Trainer Module Package

#### Internet Connection

S. No.	Internet Connections
➤	Airtel Broadband Connection (Speed: 100 MBPS)
➤	BSNL Broadband Connection (Speed: 100 MBPS)
➤	Total Speed: 200 MBPS
➤	Via Local Area Network

Prof. In charge



HoD

HOD  
Mechanical Engg. Department  
FET, SSGI, SSTC, Bhilai



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## DEPARTMENT OF MECHANICAL ENGINEERING

### MATERIAL TESTING LAB

#### List of Equipment's

S. No.	List of Equipment's	Quantity
1	Universal Testing Machine	1
2	Torsion Testing Machine	1
3	Impact Testing Machine	1
4	Fatigue Testing Machine	1
5	Erickson Testing Machine	1
6	Rockwell Hardness Testing Machine	1
7	Brinell Hardness Testing Machine	1

Prof. In charge

**HoD**

**HOD**

**Mechanical Engg. Department  
FET, SSGI, SSTC, Bhilai**



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Phone: 0788-2291605, 2291607, Fax: 0788-2291606, E-mail: [ssgi@ssgi.edu.in](mailto:ssgi@ssgi.edu.in)



## DEPARTMENT OF MECHANICAL ENGINEERING

### INTERNAL COMBUSTION ENGINE LAB

#### List of Equipment's

S. No.	List of Equipment's	Quantity
1	Two Stroke Petrol Engine Test Rig	1
2	Four Stroke Four Cylinder Petrol Engine Test Rig	1
3	Four Stroke Single Cylinder Diesel Engine Test Rig	1
4	Four Stroke Single Cylinder Petrol Engine Test Rig	1
5	Cut Section Model of Two Stroke Petrol Engine	1
6	Cut Section Model of Four Stroke Four Cylinder Diesel Engine	1
7	Cut Section Model of Carburetor (Solex)	1
8	Working Model of Ignition System (Four Cylinder)	1
9	Working Model of MPFI System	1

Prof. In charge



HoD

HOD  
Mechanical Engg. Department  
FET, SSGI, SSTC, Bhilai





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## DEPARTMENT OF MECHANICAL ENGINEERING

### AUTOMOBILE ENGINEERING LAB

#### List of Equipment's

S. No.	List of Equipment's	Quantity
1	Complete Chassis of Fiat Car (Petrol)	1
2	Cut Section of Differential	1
3	Rack and Pinion Type Steering (Cut Section)	1
4	Master Cylinder	1
5	Constant Mesh Gear Box	1
6	Syncro Mesh Gear Box	1
7	Working Model of Single Plate Clutch	1
8	Working Model of Multi Plate Clutch	1

Prof. In charge



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## DEPARTMENT OF MECHANICAL ENGINEERING

### INTERNAL COMBUSTION ENGINE LAB

#### List of Equipment's

S. No.	List of Equipment's	Quantity
1	Static and Dynamic Balancing Demo Unit	1
2	Whirling of Shaft Demo Unit	1
3	Undamped Torsional Vibration of Single Rotor System Apparatus	1
4	Compound Pendulum and Bi-filler Suspension Apparatus	1
5	Damped Torsional Vibration Apparatus	1
6	Forced Damped Vibration of Spring and Mass System Apparatus	1
7	Undamped Vibration of Spring and Mass System Apparatus	1
8	Dynamic Balancing Apparatus	1
9	Universal Governor Apparatus	1
10	Gyroscope	1
11	Coriolis Component of Acceleration Apparatus	1
12	Cam Apparatus with Digital RPM Meter and Stroboscope	1
13	Journal Bearing Apparatus	1

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**DEPARTMENT OF MECHANICAL ENGINEERING**

**MECHANICAL MEASUREMENT LAB**

**List of Equipment's**

S. No.	List of Equipment's	Quantity
1	Torque Measurement Tutor Using Torque Cell	1
2	Pressure Measurement Tutor Using Pressure Cell	1
3	Strain Measurement Tutor Using Strain Cantilever Beam	1
4	Temperature Measurement Tutor Using RTD Sensor	1
5	Temperature Measurement Tutor Using Thermocouple Sensor	1
6	Temperature Measurement Tutor Using Thermistor Sensor	1
7	Displacement Measurement Using LVDT	1
8	Bourdan Gauge Trainer	1
9	Angular Measurement Tutor	1
10	Dead Weight Piston Gauge apparatus	1
11	Rotameter Trainer Module	1

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## DEPARTMENT OF MECHANICAL ENGINEERING

### METROLOGY LAB

#### List of Equipment's

S. No.	List of Equipment's	Quantity
1	Universal Bevel Protractor Blade	1
2	Make Sine Bar	1
3	Aerospace Combination Set	1
4	Slip Gauge Set	1
5	Optical Comparator	1
6	Twin Channel Electrical Gauge	1
7	Probes for Twin Channel Electrical Gauge	1
8	Tool Makers Microscope Model	1

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## DEPARTMENT OF MECHANICAL ENGINEERING

### ROBOTICS LAB

#### List of Equipment's

S. No.	List of Equipment's	Quantity
1	MAKIT Master (Mechanical Kit) Sr. No. of Kits 353 (MAKIT – Master) Mechanical Model Development Kit Including All Items as per List	1
2	MAKIT – HITECH Control Mechanism for the Study of Functions of Mechanical Models with Sensors, Software's and Hard Copy of Manuals	1

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## DEPARTMENT OF MECHANICAL ENGINEERING

### HEAT AND MASS TRANSFER LAB

#### List of Equipment's

S. No.	List of Equipment's	Quantity
1	Thermal Conductivity of Metal Bar	1
2	Heat transfer Through Composite Wall	1
3	Thermal Conductivity of Liquids of Liquid Apparatus	1
4	Thermal Conductivity of Insulating Powder Apparatus	1
5	Emissivity Measurement Apparatus	1
6	Stefan Boltzmann Apparatus	1
7	Heat Pipe Demonstrator Apparatus	1
8	Heat Transfer in Natural Convection Apparatus	1
9	Heat Transfer Through Forced Convection Apparatus	1
10	Parallel Flow and Counter Flow Heat Exchanger Apparatus	1
11	Pin-Fin Apparatus	1
12	Boiling Heat Transfer Apparatus	1
13	Drop and Film Condensation Apparatus	1

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## DEPARTMENT OF MECHANICAL ENGINEERING

### REFRIGERATION AND AIR CONDITIONING LAB

#### List of Equipment's

S. No.	List of Equipment's	Quantity
1	Vapour Compression Refrigeration System Test Setup	1
2	Ice Plant Test Setup	1
3	Water Cooler Test Setup	1
4	Air and Water Heat Pump Test Setup	1
5	Vapour Absorption Refrigeration System Test Setup	1
6	Window Type Air Conditioner Test Setup	1
7	Experimental Condensing Unit Test Setup + Valve for Boiler	1

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## DEPARTMENT OF MECHANICAL ENGINEERING

### THERMODYNAMICS LAB

#### List of Equipment's

S. No.	List of Equipment's	Quantity
1	Model of Cornish Boiler with Mountings and Accessories	1
2	Model of Lancashire Boiler with Mountings and Accessories	1
3	Model of Vertical Boiler with Mountings and Accessories	1
4	Model of Babcock Wilcox Boiler with Mountings and Accessories	1
5	Model of Locomotive Boiler with Mountings and Accessories	1
6	Model of Water Level Indicator (Boiler Mounting)	1
7	Model of Pressure Gauge	1
8	Model of Spring Loaded Safety Valve	1
9	Model of Four Stroke Petrol Engine	1
10	Model of Four Stroke Diesel Engine	1
11	Model of Two Stroke Petrol Engine	1
12	Model of Two Stroke Diesel Engine	1
13	Model of Compound Steam Engine	1
14	Model of Steam Engine with Boiler	1

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## DEPARTMENT OF MECHANICAL ENGINEERING

### ENGINEERING MECHANICS LAB

#### List of Equipment's

S. No.	List of Equipment's	Quantity
1	Universal Force Table	1
2	Compound Lever Apparatus	1
3	Static Friction Apparatus	1
4	Combined Coiled and Belt Friction Apparatus	1
5	Parallel Force Apparatus Overhang Beam Type	1
6	Bending Moment Apparatus	1
7	Differential Wheel and Axle Apparatus	1
8	Modified Screw Jack Apparatus	1
9	Combined Compression and Extension of Spring Apparatus	1
10	Worm and Worm Wheel Apparatus	1
11	Simple Jib Crane Apparatus	1
12	Geared Jib Crane Apparatus	1
13	Single purchase Winch Crane Apparatus	1
14	Double purchase Winch Crane Apparatus	1

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## DEPARTMENT OF MECHANICAL ENGINEERING

### FLUID MECHANICS AND MACHINERY LAB

#### List of Equipment's

S. No.	List of Equipment's	Quantity
1	Pelton Wheel Turbine Test Rig	1
2	Francis Turbine Test Rig	1
3	Centrifugal Pump Apparatus	1
4	Impact of Jet Pump Apparatus	1
5	Hydraulic Ram	1
6	Reciprocating Pump Apparatus	1
7	Metacentric Height Apparatus	1
8	Losses in Pipes Apparatus	1
9	Venturimeter and Orifice meter	1
10	Notch Apparatus	1
11	Bernoulli's Theorem Apparatus	1
12	Pipe Friction Apparatus	1
13	Reynolds Apparatus	1

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