

**MANDATORY DISCLOSURE**

**Academic Year 2022-2023**

1. Name of the Institution :- Y. B. Patil Polytechnic  
Address of the Institution :- Sector No. 29, Near Akurdi Railway Station, Nigdi – Pradhikaran, Akurdi,  
City & Pin Code :- Pune-411044  
State / UT :- Maharashtra  
Longitude & Latitude :- 73<sup>0</sup>55min East / 18<sup>0</sup> 31min North Resp  
Phone number with STD Code :- 02027659147  
FAX number with STD code :- 02027659147  
Email ID :- [principal@ybppolytechnic.ac.in](mailto:principal@ybppolytechnic.ac.in)  
[principalyb@gmail.com](mailto:principalyb@gmail.com)  
Website :- [www.ybppolytechnic.org](http://www.ybppolytechnic.org)  
Nearest Railway Station(dist in Km) :- Akurdi Railway Station, 01 km  
Nearest Airport (dist in Km) :- Lohgaon, 20km
2. Name of the Trust :- Dr. D.Y. Patil Pratishthan, KOLHAPUR  
Address of the organization :- 2126E, Ajikyatara, Tarabai Park, Kolhapur-416003  
Tel. No. :- 231/2653288/89/90 fax. 2653426  
Registered with :- Charity Commissioner, KOLHAPUR  
Registration date:- :- 27/12/1990  
Email Id :- [dypkolhapur@rediffmail.com](mailto:dypkolhapur@rediffmail.com)
3. Name of Principal :- Dr. Arvind S. Kondekar  
Designation :- PRINCIPAL  
Phone & Mobile number :- 020/27654121, 9923602484  
FAX number with STD code :- 02027659147  
Email :- [principal@ybppolytechnic.ac.in](mailto:principal@ybppolytechnic.ac.in)  
[principalyb@gmail.com](mailto:principalyb@gmail.com),  
Highest Degree :- Ph.D, M.E.(Production Engg.)
4. Name of the affiliating Board :- MSBTE, Mumbai  
Address :- Govt. Poly. Building. 3rd Floor, Ali Avar Jang Marg, Bandra East, Mumbai 400051  
Website :- [www.msbte.org.in](http://www.msbte.org.in)

5 Governance

a. Members of the Board and their brief background

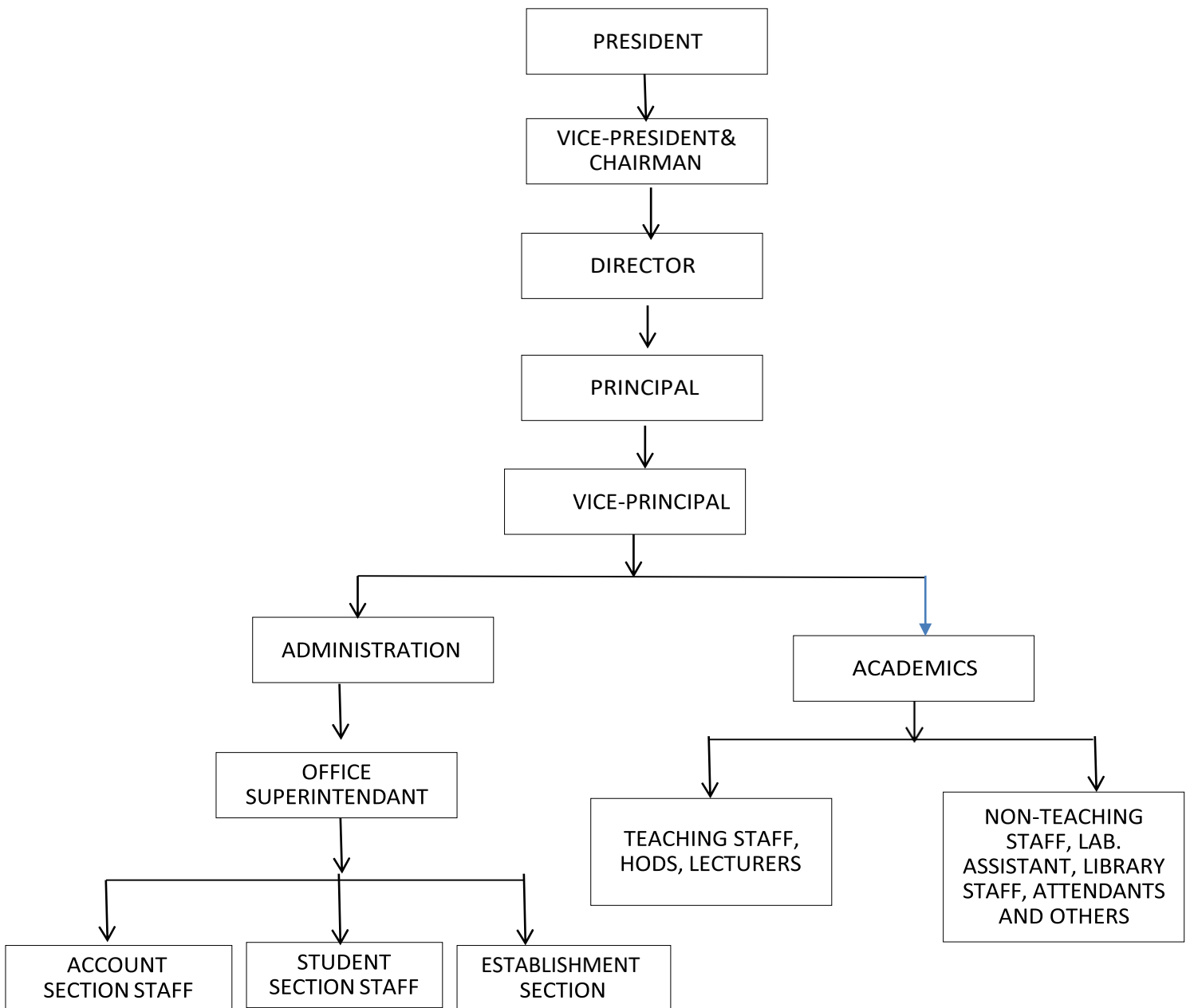
	<b>Name of the member</b>	<b>Position in BoG</b>
	Shri. Satej D. Patil	Chairman Dr. D.Y.Patil Educational Complex, Akurdi, Pune. 411044.
	Shri Tejas S. Patil	Member, Nominee, Trust
	Shri. Shripad S. Dharangutti	Member, Nominee, Trust
	RAdm Amit Vikram(Retd)	Member, Nominee, Trust
	Dr. S.S.Sarnobat	Member, Nominee, Educationist
	Mr. Hindurao Jadhav	Member, Nominee, Industrialist
	Member, Nominee, MSBTE	Member, MSBTE, Mumbai.
	Member, Nominee, AICTE	Member, Nominee, AICTE
	Member, Nominee, DTE	Member, Nominee, DTE
	Dr. A.S.Kondekar	Member Secretary
	Mrs. S.R.Muley	Member, Nominee, Vice- Principal
	Mr. A.H.Patil	Member, Nominee, Academic Co-ordinator

b. Members of Academic Advisory Body

<b>Sr. No.</b>	<b>Name</b>	<b>Designation</b>
01	RAdm Amit Vikram(Retd) Campus Director, Dr. D. Y. Patil Educational Complex Akurdi, Pune-411044	Chairman
02	Shri. Abhijit H. Patil HOD in Civil Engineering, Y. B. Patil Polytechnic, Akurdi, Pune-411044	Co-ordinator
03	Mrs. Shilpa R. Muley Vice - Principal, Y. B. Patil Polytechnic, Akurdi, Pune-411044	Member
04	Mrs. Manisha V. Vibhute HOD in Electronics & Communication Engineering, Y. B. Patil Polytechnic, Akurdi, Pune-411044	Member
05	Shri. Dilip V. Moghekar HOD in Mechanical Engineering, Y. B. Patil Polytechnic, Akurdi, Pune-411044	Member
06	Mrs. Pooja S. Ahuja HOD in Computer Engineering, Y. B. Patil Polytechnic, Akurdi, Pune-411044	Member
07	Shri. Mahadeo D. Walekar F. Y. Co-ordinator, Y. B. Patil Polytechnic, Akurdi, Pune-411044	Member
08	Shri. Amar Balugade Office Superintendent, Y. B. Patil Polytechnic, Akurdi, Pune-411044	Member
09	Dr. Arvind S. Kondekar Principal, Y. B. Patil Polytechnic, Akurdi, Pune-411044	Member Secretary

c. Frequently of the Board Meeting and Academic Advisory Body : **Yes**

d. Organizational chart and processes



<ul style="list-style-type: none"> <li>• Student feedback mechanism on Institutional Governance / faculty performance</li> </ul>	<p>Format as prescribed by MSBTE is used Along with additional formats prepared to take the feedback from the students</p>
<ul style="list-style-type: none"> <li>• Grievance Redressal mechanism for faculty, staff and students</li> </ul>	<p>A Suggestion box is kept in the office which is opened twice in a month and the committee formed takes the necessary remedial actions.</p>

- e. Nature and Extent of involvement of Faculty and students in academic affairs/ improvements : Yes
- f. Mechanism/ Norms and Procedure for democratic/ good Governance : Yes
- g. Student Feedback on Institutional Governance/ Faculty performance : Yes

**h. Grievance Redressal mechanism for Faculty, staff and students**

Sr. No.	Name of Member	Designation
1	Mr.N.S.Swami	Chairman
2	Mr S.A.Korde	Member
3	Mrs.S.N.Bhatlawande	Member
4	Ms.Neha Kale	Student Representative
5	Mr.Kalokhe A.Santosh	Student Representative
6	Mr.Pratish Muneshwar	Student Representative

**i. Establishment of Anti Ragging Committee**

Sr. No.	Name of Member	Designation
1	Dr.A.S.Kondekar	Chairman
2	Mrs.M.V.Vibhute	Member
3	Mr.D.V.Moghekar	Member
4	Mr.A.H.Patil	Member
5	Mrs.P.S.Ahuja	Member

- j. Establishment of Online Grievance Redressal Mechanism : YES
- k. Establishment of Grievance Redressal Committee in the Institution : Yes

**l. Establishment of Internal Complaint Committee (ICC)**

Sr. No.	Name of Member	Designation
1	Mrs.S.R.Muley	Chairman
2	Mrs.M.V.Vibhute	Member
3	Mr.A.H.Patil	Member
4	Mrs. Vandana Jagtap	Member
5	Mr. Yogesh Gurram	Member
6	Ms. Swati Sharma	Student Member
7	Ms. Pooja Hadwale	Student Member
8	Mr. Viraj Yewale	Student Member

**m. Establishment of Committee for SC/ ST**

Sr. No.	Name of Member	Designation
1	Mr. M.D.Walekar	Chairman
2	Mrs. A.V.Bansod	Member
3	Mrs. S.S.Gawai	Member
4	Mrs.V.S.Yeole	Member
5	Mr.D.D.Shinde	Member

## n. Internal Quality Assurance Cell

Sr No	Name	Designation
1	Dr. A. S. Kondekar, Principal	Chairman
2	Mrs.S.R.Muley, Vice-Principal	Coordinator
3	Mrs.M.V.Vibhute, HOD-ET	Member
4	Shri M.D.Walekar FU-Co-ordinator	Member
5	Shri.D.V.Moghekar, HOD-ME	Member
6	Shri.A.H.Patil, HOD-CE	Member
7	Mrs.V.S.Godbole, Faculty-ET	Member
8	Mrs.P.S.Ahuja, HOD-CO	Member
9	Shri.C.M.Pattanshetty, TPO	Member
10	Mr. Amar Balugade-OS	Member
11	Dr. V.A.Kulkarni, Academician	Member
12	Mr. Hindurao Jadhav, Industrialist	Member
13	Mr. Vishesh Bansal, Alumni Representative	Member
14	Ms. Swati Sharma, Student Representative	Member

## 6 Programmes

- Name of Programmes approved by AICTE – **Engineering and Technology**
- Name of Programmes Accredited by NBA : Eligible –To be Applied
- For each Programme the following details are to be given:

Sr. No.	Name of Course	Intake	Duration	Fee	Placement Facilities
1	Civil Engg.	60	3	61000/-	Yes
2	Computer Engg.	120	3	61000/-	Yes
3	Electronics & Comm. Engg	60	3	61000/-	Yes
4	Mechanical Engg.	60	3	61000/-	Yes

- Cut of Marks / rank of admission during the last three years :  
<https://docs.google.com/spreadsheets/d/1N7aKSar7LL1eTq1WMIpnsAbJ6-Gt7koR/edit#gid=1221057734>
- Campus placement in last three years with minimum salary, maximum salary and average salary  
[https://docs.google.com/document/d/1HNO73ZuB6P6TXL4KhxH4asMLUCZIs\\_Dy/edit](https://docs.google.com/document/d/1HNO73ZuB6P6TXL4KhxH4asMLUCZIs_Dy/edit)

## 7 Faculty

- Branch wise list Faculty members:

Sr. No.	Name of Staff	Designation
1	Dr. Arvind S. Kondekar	Principal
2	Mrs. Shilpa R. Muley	Vice-Principal
<b>First Year</b>		
3	Mr. Mahadev D. Walekar	First Year In-charge Lecturer in Physics
4	Mr. Dada D. Shinde	Lecturer in Chemistry
5	Dr. Sapana S. ThakurRaje	Lecturer in English
6	Mrs. Prachi P. Kulkarni	Lecturer in Maths
7	Mrs. Priya A. Bhosale	Lecturer in Maths
<b>Computer Engineering</b>		
8	Mrs. Pooja S. Ahuja	Lecturer
9	Mrs. Archana. V. Bansod	Lecturer
10	Mr. Santosh A. Korde	Lecturer
11	Mrs. Sukeshini S. Gawai	Lecturer
12	Ms. Asmita A. Mohite	Lecturer
13	Mrs. Rupali V. Shinde	Lecturer
14	Ms. Dimpal U. Chavan	Lecturer
15	Mrs. Rathod Priti N	Lecturer
16	Mrs. Jadhav Priyanka V	Lecturer
17	Ms. Priyanka Chetwani	Lecturer
18	Ms. Pragati K. Thorat	Lecturer
<b>Mechanical Engineering</b>		
19	Mr. Dilip V. Moghekar	HOD
20	Mr. Nandakumar S. Swami	Lecturer
21	Mr. Chandru M. Pattanshetty	Lecturer
22	Mrs. Swati A. Naik	Lecturer
23	Ms. Jadhav Snehal S.	Lecturer
<b>Civil Engineering</b>		
24	Mr. Abhijit H. Patil	HOD
25	Mrs. Sheetal P. Nalbilwar	Lecturer
26	Mr. Amit B. Ghongade	Lecturer
27	Ms. Manali M. Kulkarni	Lecturer
28	Ms. Damini Pradhan	Lecturer
29	Mr. C. A. Mahadik	Lecturer
<b>Electronics &amp; Communication Engineering</b>		
30	Mrs. Manisha V. Vibhute	HOD
31	Mrs. Vidya S. Godbole	Lecturer
32	Mrs. Sulakshana N. Bhatlawande	Lecturer
33	Mrs. Vaijayanti S. Yeole	Lecturer
34	Ms. Sakshi Gunde	Lecturer
35	Ms. Preeti S. Mohare	Lecturer
36	Mr. Abhay N. Borade	Lecturer

Faculty: Student Ratio 1:24

- Number of Faculty employed and left during the last three years – 5%

## 8 Profile of Principal :

For each Faculty give a page covering with Passport size photograph

- Name : Dr. Arvind Shahaji Kondekar
- Date of Birth : 09/02/1965
- Unique id : 1-4878033146
- Education Qualifications : Ph.D. (Mechanical Engineering)
- Work Experience
  - i. Teaching - 35
  - ii. Research -
  - iii. Industry - 02
- Area of Specialization – Mechanical Engineering
- Courses taught at Diploma Level – Mechanical Engineering Department
- No. of paper published in National/ International : 05
- Master – Completed – M.E.(Production Engineering)
- Ph.D – Completed

## 9 Fee

- Details of Fee, as approved by State Fee Committee, for the Institution – Rs. 61,000/-
- Time schedule for payment of Fee for the entire Programme – At the time of admission
- No. of Fee waivers granted with amount and name of students – 15

Names are as follows:

### 2020-2021

[https://docs.google.com/spreadsheets/d/1FV3Fyt\\_Lk\\_d8U-EU5ZVENyaDWQAe4hVe/edit#gid=33479028](https://docs.google.com/spreadsheets/d/1FV3Fyt_Lk_d8U-EU5ZVENyaDWQAe4hVe/edit#gid=33479028)

### 2021-2022

[https://docs.google.com/spreadsheets/d/1VNGHIKApJ9q4898q8WJEE78GqJf\\_hFux/edit#gid=1055096092](https://docs.google.com/spreadsheets/d/1VNGHIKApJ9q4898q8WJEE78GqJf_hFux/edit#gid=1055096092)

### 2022-2023

<https://docs.google.com/spreadsheets/d/1p4sK9PFCNbQgXMyPwayzVzrDxhFy8ErB/edit#gid=1487891114>

- Number of scholarship offered by the Institution, duration and amount - NO
- Criteria for Fee waivers/scholarship – As per Government Rules
- Estimated cost of Boarding and Lodging in Hostels – Rs. 60,000/- per year

## 10 Admission

- a. Number of seats sanctioned with the year of approval - 300
- b. Number of Students admitted under various categories each year in the last three years



**A.Y.- 2020-2021**

<https://docs.google.com/spreadsheets/d/1EnAPpP4LPLnpZY2AmLEuezXnzIcdqboN/edit#gid=1713846302>

**A.Y.- 2021-2022**

[https://docs.google.com/spreadsheets/d/1\\_d9BxFr22W50z6XPDbKM4GkvVJeJ5Jyk/edit#gid=1403814988](https://docs.google.com/spreadsheets/d/1_d9BxFr22W50z6XPDbKM4GkvVJeJ5Jyk/edit#gid=1403814988)

**A.Y.- 2022-2023**

[https://docs.google.com/spreadsheets/d/1zld7YefJnqKL-deVjubKx0y49J8\\_V7\\_k/edit#gid=1382359663](https://docs.google.com/spreadsheets/d/1zld7YefJnqKL-deVjubKx0y49J8_V7_k/edit#gid=1382359663)

- c. Number of applications received during last two years for admission under Management Quota and number admitted – 20% of total sanctioned intake

## 11 Admission Procedure

- Admission process is carried out as per the guidelines given by DTE Maharashtra.
  - Mention the admission test being followed, name and address of the Test Agency and its URL (website) - NA
  - Number of seats allotted to different Test Qualified candidate separately (AIEEE/ CET (State conducted test/ University tests/ CMAT/ GPAT)/ Association conducted test) - NA  
As per Norms given by DTE, Maharashtra, mentioned in Admission Information Brochure point no. 15.

## 12 Criteria and Weightages for Admission

- a. Describe each criterion with its respective weightages i.e. Admission Test, marks in qualifying examination etc. NA
- b. Mention the minimum Level of acceptance, if any
- c. Mention the cut-off Levels of percentage and percentile score of the candidates in the admission test for the last three years: **No any test for Diploma Admission Procedure**
- d. Display marks scored in Test etc. and in aggregate for all candidates who were admitted : **No any test for Diploma Admission Procedure**

- 13 List of applicant: Displayed on institute website : NA

## 15 Information of Infrastructure and Other Resources Available

- a. Number of Class Rooms and size of each – 11 (66sqm)
- b. Number of Tutorial rooms and size of each – 04 (33sqm)
- c. Number of Laboratories and size of each – 26 (66sqm)
- d. Number of Drawing Halls with capacity of each - 01 (132sqm)
- e. Number of Computer Centres with capacity of each – 01 (150sqm)
- f. Central Examination Facility, Number of rooms and capacity of each – Yes
- g. Online examination facility  
No of nodes -180  
Internet Bandwidth -100Mbps
- h. Barrier Free Built Environment for disabled and elderly persons - Yes
- i. Occupancy Certificate - Yes
- j. Fire and Safety Certificate -Yes

k. Hostel Facilities - Yes

**l. Library**

- i. Number of Library books/ Titles/ Journals available (program-wise)  
Books – 31360  
Titles - 5285
- ii. List of online National/ International Journals subscribed - 15
- iii. E- Library facilities – Yes
- iv. National Digital Library - Yes  
Club Member Registration ID: INMHNC3QFZFYBOE

**m. Laboratory and Workshop**

- i. List of Major Equipment/Facilities in each Laboratory/ Workshop

**Computer Engineering**

**PROGRAMMING LAB**

<b>Sr. no.</b>	<b>Name of Equipment</b>	<b>No. Available</b>	<b>Cost</b>
1	COMPUTER SYSTEM	60	1755000
2	PATCH CORD	19	4218
3	INFORMATION OUTLET BOX	60	13200
4	All IN One Printer	1	11650
5	UPS 10KVA	1	134160
6	24 PORT SWITCH(1024D)	2	15800
7	WALL MOUNT SWITCH RACK	1	5547
8	PATCH CORDS	60	10500
9	24 PORT SWITCH(CAT-6UTP)	2	9700
10	DELL T110 SERVER	1	63000

**NETWORKING LAB**

<b>Sr. no.</b>	<b>Name of Equipment</b>	<b>No. Available</b>	<b>Cost</b>
1	COMPUTER SYSTEMS	60	1332360
2	24 PORT MBPS SWITCH(1024D)	3	23700
3	24 PORT CAT 6 PANEL	3	14550
4	INFORMATION OUTLET BOX	60	13200
5	WALL MOUNT SWITCH RACK	2	11094
6	24 PORT SWITCH (L2)	1	70000
7	UPS 10KVA	2	446500

## HARDWARE LAB

<b>Sr. no.</b>	<b>Name of Equipment</b>	<b>No. Available</b>	<b>Cost</b>
1	HUB 16 PORT	2	13900
2	HUB 8 PORT	4	12400
3	SATA OR IDE TO USB CONVERTOR	1	2000
4	PRONET 1/100 FAST ETHERNET SWITCH (8 PORT)	1	1500
5	MODEM	4	7800
6	8 PORT SWITCH	2	1750
7	24 PORT SWITCH	1	7900
8	DLP PROJECTOR BENQ MS500	2	60434
9	DELL PROJECTORS	2	55000
10	EXTERNAL USB DVD WRITER LG	1	1850
11	USB HARD DISK SEGATE 1 TB	1	5600
12	8 GB PEN DRIVE HP	1	500
13	LAN TESTER	1	250
14	WEB CAMERA	2	1200
15	CANON LASER JET PRINTER 2900	1	6400
16	DELL COMPUTER SYSTEMS	2	49020
17	USB to PS2 CONVERTER	20	2000
18	SAMSUNG 40GB HARDDISK	1	2000
19	Crimping Tool	1	170
20	Mercury NS360 Speaker	1	300

## SOFTWARE LAB 1

<b>Sr. no.</b>	<b>Name of Equipment</b>	<b>No. Available</b>	<b>Cost</b>
1	UPS 10KVA	1	223250
2	COMPUTER SYSTEMS	40	893038
3	CANNON PRINTER	1	6250
4	24 PORT SWITCH	1	5000

## SOFTWARE LAB 2

<b>Sr. no.</b>	<b>Name of Equipment</b>	<b>No. Available</b>	<b>Cost</b>
1	COMPUTER SYSTEMS	30	452890
2	UPS 10KVA	1	223250
3	24 PORT SWITCH	1	2500
4	COMPUTER SYSTEMS	30	452890

## MECHANICAL ENGINEERING

### THERMAL ENGINEERING LAB

Sr. No.	Name of Equipment	No. Available	Cost
1	Cut Section Models Of Various Boiler Mountings And Accessories.(9types)	1	35685/-
2	Cut Section Models Impulse And Reaction Turbines	1	6500/-
3	Thermal Conductivity For A Given Sample Of Solid Metallic Rod Test Rig.	1	32500/-
4	Models Heat Exchangers (Jet Condenser, Evaporator, Radiator Etc.) (09)	1	28710/-

### FLUID MECHANICS AND MACHINERY LAB

Sr. No.	Name of Equipment	No. Available	Cost
1	Hydraulic Trainer Kit	1	35685/-
2	Pneumatic Experimental Kit	1	6500/-

### METROLOGY & QUALITY CONTROL LAB

Sr. No.	Name of Equipment	No. Available	Cost
1	Angle Gage Ste (13 Pieces)	1 Set	48300/-
2	High Pressure Dials Type Pneumatic Comparator.	8	42140/-
3	Surface Roughness Tester	1	160000/-
4	Autocollimator With Angle Dekkor	1	195000/-

### THEORY OF MACHINE LAB

Sr. No.	Name of Equipment	No. Available	Cost
1	Models And Charts Of Dynamometers	1	32331/-
2	Models And Charts Of Different Types Of Clutch.(5)	1	28763/-
3	Balancing Of Rotating Masses Test Rig	1	28889/-

### WORKSHOP

Sr. No.	Name of Equipment	No. Available	Cost
1	Shaping Machine- Anoop- H-P-18-S	02	117612/-
2	MTAB CNC machine	01	1333075/-
3	Universal Milling machine	01	2,92,150/-
4	Lathe- Machines- 4',6'	20	7,83396/-

### CAD LAB

Sr. No.	Name of Equipment	No. Available	Cost
1	Desktop with LAN	20	13,36,950/-

**POWER LAB**

<b>Sr. No.</b>	<b>Name of Equipment</b>	<b>No. Available</b>	<b>Cost</b>
1	4 Stroke Single Cylinder Diesel Engine	01	49,500 /-
2	Morse Test Rig	01	1,57,500 /-
3	2 stage Reciprocating air Compressor	01	58,000 /-
4	2 Stroke Engine Model for Dismantling Purpose	01	7,650 /-

**CIVIL ENGINEERING**

<b>Sr. no.</b>	<b>Name of Equipment</b>	<b>No. Available</b>	<b>Cost</b>
1	Transit Theodolite as per ISI complete.	6	79110
2	Quick setting Dumpy Level with stand.	8	52560
3	1" Optic theodolite	1	85050
4	Total Station	1	390000

**GEOTECHNICAL ENGINEERING LABORATORY**

<b>Sr. no.</b>	<b>Name of Equipment</b>	<b>No. Available</b>	<b>Cost</b>
1	Direct shear apparatus	1	90000
2	Triaxial test apparatus	1	80000
3	CBR Test apparatus	1	57240

**PUBLIC HEALTH ENGINEERING LABORATORY**

<b>Sr. No.</b>	<b>Name of Equipment</b>	<b>No. Available</b>	<b>Cost</b>
1	BOD Incubator	1	55500

**CONCRETE TECHNOLOGY LABORATORY**

<b>Sr.no.</b>	<b>Name of Equipment</b>	<b>No. Available</b>	<b>Cost</b>
1	Los Angeles abrasion Testing Apparatus	1	64525
2	Compression testing machine	1	39783

## ELECTRONICS & COMMUNICATION ENGINEERING

SR.NO.	NAME OF EQUIPMENT	MODEL/MAKE	COST IN Rs.
01	Mobile Phone Trainer	Scientech ST 2132	42793
02	Audio CD/VCD/MP3 Player	ACD-100	31219
03	PID Controller (Analog)	Neeshonics	47615
04	Colour TV Trainer(ST2651)	Scientech	34508
05	Spectrum Analyzer	Hemag , HM-5006	90,000
06	Rectifier Convertor (3 Phase FULL Wave)	Powercon	33,335.28
07	Dual Trace Oscilloscope 100 MHz	Scientific,M-1005	57750
08	Programmable Logic Controller (Digital)	Logix Automation Technilogy	30000
09	Programmable Logic Controller(Analog)	Logix Automation Technilogy	30000
10	Audio CD/VCD/MP3 Player	ACD-100	31219
11	Logic Analyzer	Technofield Solutions	31237

### ii. List of Experimental Setup in each Laboratory/ Workshop

#### Computer Engineering

##### Name of Laboratory: PROGRAMMING LAB

Sr. No.	List of practical set up
1	Write/compile/execute simple 'C' program: Develop minimum 2 programs using Constants, Variables, arithmetic expression.
2	Write/compile/execute simple 'C' program:Develop minimum 2 programs increment/decrement operators, exhibiting data type conversion
3	Write simple programs to convert temperature in Fahrenheit degrees to Centigrade degrees.
4	Write simple programs to calculate the area and perimeter of the rectangle, and the area & circumference of the circle
5	Decision Making and branching using if, if-else structure Write program to: (i) Determine whether a given year is a leap year or not. (ii) Determine whether a string is palindrome.
6	"Write program to:
7	(i) Find the greatest of the three numbers using conditional operators (ii) Find if a given character is vowel."
8	"Using switch statement: Write programs to :
9	(i) Print day of week by taking number from 1 to 7. (ii) Print a student's grade by accepting percent marks. "
10	Using switch statement: Write programs to check whether the triangle is isosceles, equilateral, scalene or right angled triangle

11	"Looping: Write a program to :
	(i) Find sum of digits of a given number. (ii) Generate multiplication table up to 10 for numbers 1 to 5."
12	"Write a program to :
	(iii) Find Fibonacci series for given number. (iv) Write a program to produce the following output:

**Name of Laboratory: NETWORKING LAB**

Sr. No.	List of practical set up
1	To observe Components of Network in your Computer Network Lab and state their specifications.
2	Identify transmission media and study specifications Identify network control devices and study specifications
3	To Prepare UTP/STP Cable in straight and Cross over mode and test by Line Tester.
4	To install a network interface card to locate MAC address of computer
5	To install and configure TCP/IP protocol <span style="float: right;">configure peer</span> to peer network in laboratory
6	To run basic TCP/IP utilities and Network Commands with all options
7	To Connect Computers in Star Topology using Wired Media and any Network control Device..
8	To Share Printer and Folder in Network.
9	Install Wireshark software and Configure as a packet sniffer
10	Capture packets of various protocols using Wireshark packet sniffer software and observe header files

**Name of laboratory: HARDWARE LAB**

Sr. No.	List of practical set up
1	Identify desktop and server by its type and verify its specification.
2	Identify type of laptop and verify its specification."
3	Identify hardware components on motherboard
4	Troubleshoot common problems of motherboard"
5	Configure BIOS settings
6	Partition and manage hard disk: format hard drives with different file system (Part - I)
7	Partition and manage hard disk: format hard drives with different file system (Part - II)
8	Install Operating System - Windows family (such as Windows 7 / Windows 10/ Windows Server 12)
9	Install Operating System - Unix family (such as Linux/Ubuntu/Centos)
10	Troubleshoot Hard Disk Problems.
11	Install local printer (Software configuration settings on printer and Troubleshooting)
12	Share printer in Network (Software configuration settings on printer and Troubleshooting)"
13	Set keyboard, mouse, monitor speaker, microphone and LCD Projector

**Name of laboratory: SOFTWARE LAB 1**

Sr. NO.	List of practical set up
1	Write a program to Accept & display data for exchanging values of two variables
2	Write a program to declare a class 'person' having data members name, age % salary. Accept & display this data for one object
3	Write a program to declare a class 'employee' having data members name, age. Accept & display this data for three objects.
4	Write a program to show how static member is shared by multiple objects of the same class.
5	Write a program to find out the mean value of a given number using friend function.
6	Write a program to print student details using 'stud' class using constructor and destructor
7	Write a program to find prime number using default argument in constructor
8	Write a program to find out the payroll system using single level inheritance
9	Write a program to evaluate the largest number of an array using pointer
10	Write a program to search a character in a string using pointer
11	Write a program to input and display code and price for two items using pointer to object
12	Write a program to display roll no & name of student us int 'this' pointer
13	Write a program to use function overloading to calculate volume of cube,cylinder & rectangular box
14	Write a program to overload '-' operator
15	Write a program to display the output using the virtual function



## Name of Laboratory: SOFTWARE LAB 2

Sr. No.	List of practical set up
1	Write a program to design a form using the components text field, label, checkbox, button, list.
2	Write a program demonstrating the use of Border layout .
3	Write a program to perform addition of two nos. make use of text field and button.
4	Write a program using AWT to create a menu with various menu items and submenu items
5	Write a program using swing to display a Jcombobox in an applet.
6	Write a program to create a jtree and recognize mouse clicks on it.
7	Write a program to create a jtable on Japplet window
8	WAP to display the key pressed on Applet window.
9	WAP to make use of adapter classes
10	WAP to retrieve hostname and IP address in InetAddress class.
11	Write a program to design a form using the components textfield,label,checkbox,button,list.
12	WAP to use URL connection class and display 1.Protocol2.HostName 3.PortNumber 4.FILE Name.
13	WAP that demonstrate TCP/IP based connection between client and server
14	WAP to send data to table "XYZ" in database using prepared statement
15	Write a servlet to display the user name and password accepted from the client.
16	WAP to use URL connection class and display 1.Protocol2.HostName 3.PortNumber 4.FILE Name.
17	WAP that demonstrate TCP/IP based connection between client and server

## MECHANICAL ENGINEERING

### THERMAL ENGINEERING LAB

Sr. No.	List of practical set up
1	Air Compressor
2	Model Of Lancashire Boiler
3	Model Of Locomotive Boiler
4	Babcock & Wilcock Boiler
5	Cocheran Boiler
6	Model And Charts Of La-Mont' Boiler
7	Model And Charts Of Cochran Boiler
8	Various Mountings & Accessories
9	Cut Section Models Impulse And Reaction Turbines
10	Thermal Conductivity
11	Models Heat Exchangers (Jet Condenser, Evaporator, Radiator)
12	Instruction Model Of 2 & 4 Stroke Petrol & Diesel Engine

## FLUID MECHANICS AND MACHINERY LAB

Sr. No.	List of practical set up
1	Hydraulic Trainer Kit
2	Pneumatic Experimental Kit
3	Minor Losses In Flow Through Pipe
4	Major Losses In Flow Through Pipe
5	Pelton Wheel Turbine Test Rig

## METROLOGY & QUALITY CONTROL LAB

Sr. No.	List of practical set up
1.	Vernier Height Gage
2.	Vernier Depth Gage
3.	Slip Gage Set
4.	Vernier Calipers
5.	Combination Set
6.	Micrometer External 0.25mm
7.	Micrometer External 50-75mm
8.	Micrometer Internal
9.	Depth Gage Micrometer
10.	Bevel Protractor
11.	Dial Gage Indicator
12.	Spirit Level 200 Mm
13.	Angle Plate
14.	Internal Telescopic Gage
15.	V-Block Magnetic (1 Pair)
16.	V-Block With Clamp (2 Pairs)
17.	Straight Edge 4"
18	Hand Caliperd (1 Set)
19	Engineering Square 6"
20	Steel Rule 12"
21	Steel Rule 1 Meter
22	Radius Gage 1.7 R
23	Feelar Gage (26 Pieces)
24	Pitch Gage
25	Fit Box 1st
26	8" Vernier Caliper
27	Gear Tooth Vernier
28	Sine Bar 300 Mm
29	Surface Plate Granite
30	Sodium Monochromatic Light Unit
31	Specimen Set (6 Pieces)
32	Angle Gage Ste (13 Pieces)
33	Floating Carr. Dia. Measuring M/C
34	Demonstration Gauge Kit
35	Speed 150 Profile Projector
36	Gear Rolling Tester
37	"Ohp" With Screen And Stand

38.	High Pressure Dials Type Pneumatic Comparator.
39.	Screw Pitch Gauge,
40.	Screw Thread Micrometer
41.	Surface Roughness Tester
42.	Gear Tooth Vernier
43.	Autocollimator With Angle Dekkor

### **THEORY OF MACHINE LAB**

<b>Sr. No.</b>	<b>List of practical set up</b>
1.	Kinematics Pairs
2.	Inversion Of Four Bar Mechanisum
3.	Whitworth Quick Return Mechanisum
4.	Cam Testing Rig
5.	Gear Models
6.	Epicyclical Gear Train
7.	Static & Dynamic Balancing
8.	Models Of Mechanisum
9.	Models Of Mechanisum
10.	Friction In "Pivot" Bearing Set Up
11.	Types Of Drives
12.	Analogue Hand Tachometer
13.	Model Of Quick Return Mechanism For A Shaper. Reciprocating ,Oscillating
14.	Model Of Bicycle Free Wheel Sprocket Mechanism
15	Model Of Geneva Mechanism
16	Model Of Ackerman's Steering Gear Mechanism
17	Model Of Foot Operated Air Pump Mechanism
18	Model Of Slider Crank Mechanism
19	Model Of Different Types Of Cams And Followers
20	Double Slider Crank Chain Mechanism
21	Scotch Yoke Mechanism
22	Oldham's Coupling
23	Models Of Different Types Of Governors
24	Models And Charts Of Dynamometers
25	Models And Charts Of Different Types Of Clutch.(5)
26	Balancing Of Rotating Masses Test Rig

**POWER ENGINEERING LAB**

Sr. No.	List of practical set up
1.	4 Stroke Single Cylinder Diesel Engine
2.	Morse Test Rig
3.	2 stage Reciprocating air Compressor
4.	2 Stroke Engine Model for Dismantling Purpose

**CIVIL ENGINEERING****Name of Laboratory: Surveying Lab**

Sr. No.	List of practical set up
1	Study and use of metric chain , tapes, ranging rods, arrows
2	Measure distance between two survey points
3	Determine area of given field using chain and cross staff survey
4	Measure fore bearing and back bearing survey lines prismatic compass
5	Measure Fore Bearing and Back Bearing of survey lines of open traverse using Prismatic Compass
6	Measure Fore Bearing and Back Bearing of survey lines of closed traverse using Prismatic Compass
7	Simple leveling using Dumpy level
8	Differential leveling using dumpy level
9	Fly leveling using dumpy level
10	To plot cross sections and I sections of given area
11	Block Contouring

**Name of Laboratory: Geotechnical Engineering**

Sr. No.	List of practical set up
1	Water content of given soil sample using oven drying method
2	Specific gravity of soil by pycnometer method
3	To determine dry unit weight of soil by core cutter method
4	To determine plastic limit and liquid limit of soil
5	To determine shrinkage limit of soil
6	To determine grain size distribution of given soil
7	To determine coefficient of permeability by constant head permeability
8	To determine CBR value of given soil
9	To determine shear strength by Vane shear test
10	To determine MDD and OMC of given soil sample

**Name of laboratory: Concrete Technology**

Sr. No.	List of practical set up
1	To determine of fineness of cement
2	To determine standard consistency, initial setting time and final setting time of cement
3	To determine silt content of sand by volume
4	To determine buckling of sand
5	To determine bulk density of fine and course aggregate
6	To determine water absorption of Fine and course aggregate
7	To determine fineness modulus of fine aggregate by sieve analysis
8	To determine aggregate impact value
9	To determine abrasion value of aggregate
10	To determine aggregate elongation index and flakiness index
11	To determine workability of concrete using slump cone test
12	To determine workability of concrete by compaction factor test
13	To determine compressive strength of concrete

**Name of laboratory: Public Health Engineering Laboratory**

Sr. No.	List of practical set up
1	To determine PH value of given sample of water
2	To determine turbidity of given sample of water
3	To determine residual chlorine in given sample of water
4	To determine suspended solids, dissolved solids and total solids of given sample of water
5	To determine optimum dose of co agulant in given raw water sample by jar test
6	To determine BOD of given sample of water
7	To determine PH value of waste water
8	To determine COD of given sample of water

**Name of Laboratory: Engineering Mechanics laboratory**

Sr. No.	List of practical set up
1	Differential axel and wheel
2	Simple screw jack
3	Worm and worm wheel
4	Single purchase crab winch
5	Use of force table to determine resultant of concurrent forces
6	Law of moment apparatus to determine unknown force
7	Apply lamis theorem to determine unknown force
8	To determine support reactions of simply supported beam
9	To determine coefficient of friction for Horizontal and inclined surface
10	To determine centroid of geometrical figures

**Name of Laboratory: Model room**

Sr. No.	List of practical set up
1	Identify components of building structure in given model
2	Identify components of staricase in given model
3	Identify components of doors and windows in given model

## ELECTRONICS & COMMUNICATION ENGINEERING

### LAB1 - APPLIED ELECTRONICS

Sr.No.	Equipment Name
1	Digital Storage Oscilloscope(50 MHz)
2	Diode Characteristics Kit
3	Transistor Characteristics Kit
4	FET Characteristics
5	UJT Characteristics
6	SCR Characteristics
	Half Wave Rectifier / Filter
	Full Wave Center Tap
7	Full Wave Bridge Rectifier / Filter
8	Voltage Doubler ( Full Wave)
	Clipping Circuits
	Positive Clamper
9	Negative Clamper
10	Transistor Biasing Circuits
	CE Amplifier
	RC Coupled Amplifier
11	UJT Relaxation Oscillator
12	DC Motor Speed Control System
13	Rectifier Convertor (3 Phase HALF Wave)

### LAB NO.2 - DIGITAL & MICROCONTROLLER

Sr. No.	Equipment Name
1	Microcontroller Kits
	B)7SEGKBD (Interface 7 Segment Display)
	Microcontroller Kits
	7SEGKBD (Interface 7 Segment Display)
2	Microcontroller Kits
	C)DAC Interface (8 Bit DAC)
	Microcontroller Kits
	DAC Interface (8 Bit DAC)
3	Microcontroller Kits
	D)ADC0809 (8Bit ADC)
	Microcontroller Kits
	ADC0809 (8Bit ADC)
4	Microcontroller Kits
	E)Stepper Motor Interface Card with Stepper Motor
	Microcontroller Kits
	Stepper Motor Interface Card with Stepper Motor

5	Microcontroller Kits
	F) Traffic Light Simulation Card
	Microcontroller Kits
	F) Traffic Light Simulation Card
6	Microcontroller Kits
	G)SDIO-8(Digital I/O Simulation Board 8Leds & 8 switches
	Microcontroller Kits
	SDIO-8(Digital I/O Simulation Board 8Leds & 8 switches
7	8255 Study Card

### LAB NO.3 : ELECTRICAL

Sr.no.	Name of the equipment
1	3 phase load arrangement (Star and Delta)
2	3 phase Induction motor with load arrangement (pulley & belt arrangement)
3	KVL, KCL practical kit

### LAB NO.4- MEASUREMENT AND CONTROL

Sr.No.	Equipment Name
1	DC Position Control System
2	LCR Bridge
3	Stroboscope
4	PID Controller
5	ON/OFF Temp.Controller
6	Synchro Transmitter & Reci.
7	Battery Maintenance Charging Process Kit
8	Dead Weight Tester
9	RTD,TC Characteristics Trainer
10	Temp. Sensor Stripchart Recorder
11	Rotary Encoder Trainer
12	Flow Characteristics Setup for Venturi,Orifice,Rotameter,Pitot Tube
13	PID Controlled a)Level b)Flow Trainer
14	Programmable logic controller kit (1 data cable)
15	PH Meter with Electrode
16	Pattern Generator (Color)

17	Pressure Sensor (Transducer)
18	Strain Gauge, Panel Meter

**LAB NO.5- COMMUNICATION & ADVANCED COMMUNICATION**

<b>Sr. No.</b>	<b>Equipment Name</b>
1	Spectrum Analyzer
2	A.M.Radio Receiver
3	F.M. Transmitter
4	Study Of P.P.M.
5	F.M Detector
6	Study of A.S.K
7	Study of P.C.M.
8	Study of F.S.K.
9	Study of A.M.
10	Study of P.A.M.
11	Antenna Directional Patterns
12	Measurement of Transmission Line Parameter
13	Fiber Optics Trainer
14	Color T.V. Trainer
15	Hi-Fi amplifier
16	TDM Pulse Amplitude Modulation / Demod. Kit
17	FDM Trainer
18	Delta Modulation & Demodulation
19	With Phones-16 nos
20	Trainer kit for Quadrature Amplitude modulation (8-QAM)
21	Trainer kit for ADPCM/ Differential PCM
22	Trainer kit for Quadrature phase shift keying (QPSK)
23	Various line code trainer
24	Trainer kit for Differential PSK
25	GSMmobile trainer kit
26	Microwave Test Bench E ,H,Magic plane Tee,Multihole Directional Coupler 3dB,T-Circulator
27	Frequency Modulation
28	Amplitude Modulation
29	Amplitude Demodulation
30	Pulse Width Modulation
31	Pulse Code Modulation



- Computing Facilities
  - i. Internet Bandwidth – 100 Mbps
  - ii. Number and configuration of System – 270, P4
  - iii. Total number of system connected by LAN - All
  - iv. Total number of system connected by WAN - NA
  - v. Major software packages available - 23
  - vi. Special purpose facilities available(conduct of online meeting / webinars /workshops etc) – Yes
  - vii. Facilities for conduct of classes /courses in online mode(theory/practical)-Yes
  - viii. Innovation Cell - No
  - ix. Social Media Cell - Yes
  - x. Compliance of the National Academic Depository (NAD), applicable to PGCM/ PGDM Institutions and Departments - NA
  
- List of facilities available
  - i. Games and Sports Facilities - Yes
  - ii. Extra-Curricular Activities - Yes
  - iii. Soft Skill Development Facilities - Yes
  
- Teaching Learning Process
  - i. MSBTE - Yes
  - ii. Academic Calendar of the Board – Available on MSBTE website and also uploaded of institute website.
  - iii. Academic Time Table with the name of the Faculty members handling the Course – Uploaded on institute website.
  - iv. Teaching Load of each Faculty - Available
  - v. Internal Continuous Evaluation System and place - Yes
  - vi. Student’s assessment of Faculty, System in place - Yes

16. Enrollment of students in the 2022-23years - 840

17. List of Research Projects/ Consultancy Works : NA

- a. Number of Projects carried out, funding agency, Grant received -Nil
- b. Publications (if any) out of research in last three years out of masters projects - 25
- c. Industry Linkage - Online Industrial Training of 4-weeks after 4th semester is completed by Diploma Engineering Students.
- d. MoUs with Industries (minimum 5) – Yes

18. EoA the current Academic Year 2022-2023 - EOA displayed on institute website

19. Accounted audited statement for the last three years display on institute website

20. Best Practices adopted -

**Social Activities:**

1. Adopted Students from Nachiket Balgram, Akurdi, Pune.
2. Blood Donation Activity organized every year in the institute.

**Academic Improvement:**

1. Internal and External Campus Level Feedback mechanism is available.
2. Staff Appraisal process is carried out every year.
3. Sessions for Personality Development are organized for students and faculty members.
4. Faculty Development Programs are organized for faculty members.