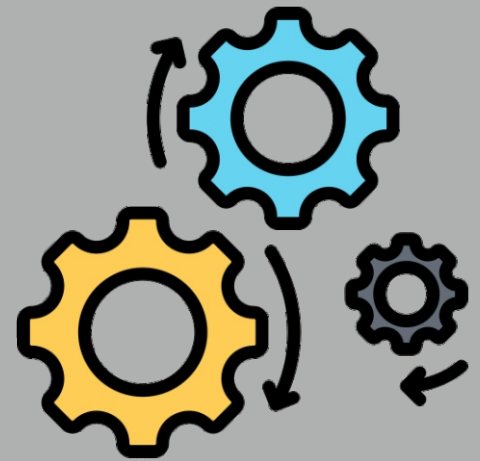


THE SHETKARI SHIKSHAN MANDAL'S  
**PADMABHOOSHAN VASANTDADA PATIL  
INSTITUTE OF TECHNOLOGY  
(PVPIT, PUNE)**



# BOOKLET FOR DEPARTMENT OF MECHANICAL ENGINEERING



[tpo@pvpittssm.edu.in](mailto:tpo@pvpittssm.edu.in)



<https://pvpittssm.edu.in>



## **Dr. (Prof.) Tanaji J. Sawant**

Honorable President, TSSM Group, JSPM Group  
Cabinet Minister Government of Maharashtra ,  
Ministry of Public Health and Family Welfare,  
Government of Maharashtra

### **Honourable Founder Secretary's Message**

Jayawant Shikshan Prasarak Mandal (JSPM) & TSSM was established in 1998 with the objective of creating centres of excellence for education in the field of Engineering, Medical, Pharmacy, Management, and Computers. Our objective behind starting TSSM was to make higher education available to all who are desirous of achieving it. I also visualized that a social transformation can be brought about through the medium of dynamic education, JSPM is thus an institution of higher education with social commitment.

## **Hon. Giriraj T. Sawant**

Secretary, TSSM Group of Institutes



### **Honourable Secretary's Message**

**We cannot always build the future for our youth, but we can build our youth for the future.**

***Franklin D. Roosevelt***

These words by Franklin D. Roosevelt perfectly describe our aim at TSSM's PVPIT Pune. Ahead of providing a sound education, we wish to provide our students a all round learning experience for life. Keeping the student at the centre of our system, our aim is to teach students to LEARN, not just STUDY. Hence, we strive to travel beyond the boundaries of mere books. We have realized that the future is abstract and unknown but the youth in our hands are real and can be moulded,



## **Prof. Dr. R. S. Pawar**

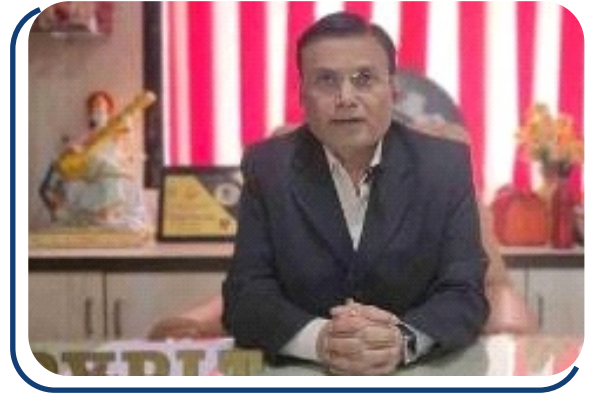
Principal, PVPIT Bavdhan

### **Dear Students,**

It is my privilege to welcome you all to the Padmabhooshan Vasantdada Patil Institute of Technology (PVPIT). PVPIT is one of the premier institutes in Engineering founded in the year started in 2006- 07. In a concise period, the institute has established itself in imparting quality education which is one of its objectives. In the 21st Century, the field of 'Engineering Education' is transforming rapidly as the obsolescence of knowledge is being evidenced more than ever before. Inconsistent with this, the institute is all set to go hand in hand with the use of state-of-the-art technologies to make the teaching-learning an enjoyable experience for the students. The Engineering course has been started with a specific mission to acquaint the Engineers graduating from the PVPIT with the noble practices of teamwork and quality aspects. In nutshell, the institute is heading towards an interdisciplinary academic forum comprising scientists, engineers, business people, and society's leaders.

## **Prof. Mukesh V. khot**

HOD, Mechanical Engineering



### **Mechanical Engineering**

Mechanical engineering is a diverse and multi disciplinary field of engineering that applies principles of physics, mathematics, and materials science to design, analyze, manufacture, and maintain mechanical systems. It encompasses a wide range of activities, from designing small-scale components to large-scale machinery and systems, across various industries such as automotive, aerospace, energy, manufacturing, and robotics.

## About TSSM and PVPIT

The Shetkari Shikshan Mandal, a charitable Trust registered under Bombay Public Trust Act 1950 and Societies Registration Act 1860. The TSSM started the Padmabhooshan Vasantdada Patil Institute of Technology in the academic year 2006-07. The College is approved by All India Council for Technical Education (AICTE), New Delhi, recognized by Government of Maharashtra, Directorate of Technical Education (DTE) and affiliated to Savitribai Phule Pune University (SPPU).

## Vision Mission of College

### Vision

To satisfy the aspirations of youth force, who want lead nation towards prosperity through techno-economic development.

### Mission

To provide, nurture and maintain an environment of high academic excellence, research and entrepreneurship for all aspiring students, which will prepare them to face global challenges maintaining high ethical and moral standards by implementing quality practices.

### Quality Policy

We at Padmabhooshan Vasantdada Patil Institute of Technology are committed to maximize student satisfaction through improved performance by imparting value based quality education

## About Department with its Uniqueness, POs and PEOs

### Programme Outcomes (Po's):-

- 1 Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2 Problem analysis:** Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- 3 Design /development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations.
- 4 Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.
- 5 Modern tool usage:** Create, select and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6 The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7 Environment and sustain ability:** Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.
- 8 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9 Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multi disciplinary settings.
- 10 Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.
- 11 Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12 Life-long learning:** Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

## Programme Educational Objectives (PEOs)

- 1 Apply their Knowledge in Science, Mathematics and Engineering to address Industrial and Societal problems with a strong emphasis on creativity, confidence, ethics, and responsibility.
- 2 Apply latest computational, analytical, simulation tools and techniques to develop and improve products and processes.
- 3 Solve multidisciplinary problems by working in cross functional teams.
- 4 Develop and upgrade technical, intellectual and emotional skills for life-long learning to compete in the rapidly evolving world.
- 5 Nurture entrepreneurial ventures and foster research activities that support sustainable economic development to enhance the quality of life.

### Vision Mission of Department

#### Vision

- To be a knowledge hub in the field of Mechanical engineering education for socio-economic development.

#### Mission

- To impart knowledge of Mechanical engineering through effective teaching learning process.
- To inculcate the spirit of innovation and creativity by active participation in development activities.
- To promote enterprising abilities for the benefit of society by imbining professional skills.

## Faculty Details

**There are 42 Total Faculties in  
Mechanical Engineering  
Department..**

## Laboratories Information

<b>Sr. No.</b>	<b>Name of faculty</b>
01	Post Graduate Lab
02	Turbo Lab
03	Internal Combustion Engine Lab
04	P-idea Lab
05	Research Lab
06	Applied Thermodynamics Lab
07	Measurement and Quality Control Lab
08	Computer Aided Design/Computer Aided Manufacturing Lab
09	Theory of Machine Lab
10	Fluid Mechanics Lab
11	Mechatronics Lab
12	Robotics Lab
13	Refrigeration and Air Conditioning Lab
14	Heat Transfer Lab
15	Dynamics of Machine Lab
16	Departmental Library
17	Metallurgy Lab

## Activities in the Department (major activities last 3 years)

A 5-Day international conference cum FDP on “Recent Advancements in Manufacturing Technologies: Industrial Approach” was organized by the department of Mechanical Engineering, PVPIT during 13th to 17th March, 2023. The conference received an overwhelming response through registration of 389 participants across the globe.

The conference was organized in association with MoE, IIC, SERB. The conveners, Dr. Md Shamim Shah and Dr. Prabhat Ranjan coordinated the event.

- The resource persons from prestigious institutes agreed to share their expertise on different topics related to the conference theme. (Invitation letters/emails attached).
- The sessions were conducted in online mode due to wide spectrum of audience from different part of the world. The feedback from the audience was requested every day after the session and it was noted that all the speakers were well appreciated. Many teachers and researchers from the audience could identify research problems and guidance on the certain topics.
- The resource persons also provided a virtual tour of their research labs during their presentations.



# Department Trainings for Students

## Aptitude Training Program

THE SHETKARI SHIKSHAN MANDAL'S  
PADMABHOOSHAN VASANTDADA PATIL  
INSTITUTE OF TECHNOLOGY (PVPIT, PUNE)  
Near Chandani Chowk, Kothrud, Pune  
(Approved by AICTE, Govt. of Maharashtra & Affiliated to Savitribai Phule Pune University)

**TRAINING AND PLACEMENT CELL**  
organised

**APTITUDE TRAINING PROGRAM**

**B.E. ALL BRANCHES - 2024 BATCH**  
**POWERED BY FUEL**

Date : 17/07/2023 to 21/07/2023  
Time : 11.00 am To 3.30 pm  
Venue : VC Hall, PVPIT

Coordinator  
Prof. Ankush Khansole

Patrons  
Hon. G. T. Sawant  
Secretary, TSSM Pune  
Dr. V. A. Bugade  
Director, PVPIT  
Dr. R. S. Karale  
Director, PVPIT  
Dr. R. S. Pawar  
Principal  
Prof. A. Shrivastava  
Ino



## Soft Skill Training Program

THE SHETKARI SHIKSHAN MANDAL'S  
PADMABHOOSHAN VASANTDADA PATIL  
INSTITUTE OF TECHNOLOGY (PVPIT, PUNE)  
Near Chandani Chowk, Kothrud, Pune  
(Approved by AICTE, Govt. of Maharashtra & Affiliated to Savitribai Phule Pune University)

**Computer, E & TC Department**  
**And T&P Cell Jointly Organize**

**SOFT SKILLS ENHANCEMENT PROGRAM**

**For B.E. Final Year 2024 BATCH**  
**POWERED BY GTT FOUNDATION**

Date : 01-08-2023 to 04-08-2023  
Time : 11.00 am To 3.30 pm  
Venue : Seminar Hall Computer Department, PVPIT

Patrons  
Hon. G. T. Sawant  
Secretary, TSSM Pune  
Dr. V. A. Bugade  
Director, PVPIT  
Dr. R. S. Karale  
Director, PVPIT  
Dr. R. S. Pawar  
Principal  
Prof. A. Shrivastava  
Ino



# Placement details 2022-23

TSSM'S  
**PADMABHOOSHAN VASANTDADA PATIL  
INSTITUTE OF TECHNOLOGY (PVPIT, PUNE)**  
(Approved by AICTE, Govt. of Maharashtra & Affiliated To Savitribai Phule Pune University)

**MECHANICAL ENGINEERING DEPARTMENT**



*Heartiest  
Congratulations  
To*  
**Placed Students In Academic Year 2022 - 23**

 <b>Arbaj Mulla</b> CAPGEMINI, 3M Software	 <b>Yash Patil</b> CAPGEMINI	 <b>Akshay patil</b> Vertex Intracore Solutions	 <b>Ameya Tadavalkar</b> HCL- Smartbrains, Qspiders Ugnis, Anisat, PENTAGON SPACE	 <b>Aniket Mane</b>
 <b>Krishna Panchal</b> PENTAGON SPACE, 3M software	 <b>Tejas Shelar</b> PENTAGON SPACE, Craft and Technik Industries	 <b>Ruluja Kolhe</b> Exoltron Thermal Pvt Ltd	 <b>Prathamesh Kapadne</b> Craft and Technik Industries	 <b>Sourabh Moholkar</b> Texconic, 3M software
 <b>Sohel Shaikh</b> Qspiders, HCL- Smartbrains	 <b>Shreyash prabhune</b> Vertex Intracore Solutions	 <b>Swapnil Diddi</b> Craft and Technik Industries	 <b>Raj Deshmukh</b> Star Security Services, Profocyma	 <b>Attarav Khole</b> Helical Technology

• With Best Compliments From •  
Management, Principal, HOD, Teaching & Non Teaching Staff

THE SHETKARI SHIKSHAN MANDAL's  
**PADMABHOOSHAN VASANTDADA PATIL  
INSTITUTE OF TECHNOLOGY (PVPIT, PUNE)**

**MECHANICAL STARS IN IT INDUSTRY**

 <b>Dnyaneshwar Jadhav</b> Wipro	 <b>YASH PATIL</b> Capgemini	 <b>ARBAJ MULLA</b> Capgemini	 <b>KRISHNA PANCHAL</b> Pentagon Space	 <b>TEJAS SHELAR</b> Pentagon Space	 <b>ANIKET MANE</b> HCL
 <b>SIDDHESH CHASKAR</b> MindBosser Technologies	 <b>SOHEL SHAIKH</b> HCL	 <b>PRAVIN BENNI</b> HCL	 <b>AMEYA TADAVALKAR</b> Qspiders	 <b>PRATIK THITME</b> Excel R Solutions	 <b>ASHITOSH PADWALKAR</b> Amazon India
 <b>SHARAVN TILEKAR</b> Capgemini	 <b>HARDIK CHAVAN</b> Pinnacle Mobility Sol.	 <b>TAUSIF ATAR</b> Wistoria real vision	 <b>UMESH YADAV</b> Pinnacle Mobility Sol.		

**BEST WISHES**  
From Management, Principal, HODs, All Teaching, Non-teaching staff

**TSSM's**  
**PADMABHOOSHAN VASANTDADA PATIL INSTITUTE OF TECHNOLOGY,**  
**BAVDHAN, PUNE-21**

<b>DEPARTMENT OF MECHANICAL ENGINEERING</b>			
<b>Placed student list 2022-23</b>			
<b>01</b>	<b>Arbaj Aslam Mulla</b>	<b>Mechanical</b>	<b>CAPGEMINI</b>
<b>02</b>	<b>Yash Sanjay Patil</b>	<b>Mechanical</b>	<b>CAPGEMINI</b>
<b>03</b>	<b>Krishna Panchal</b>	<b>Mechanical</b>	<b>PENTAGAON SPACE</b>
<b>04</b>	<b>Aniket Rameshwar Mane</b>	<b>Mechanical</b>	<b>PENTAGAON SPACE</b>
<b>05</b>	<b>Tejas Shelar</b>	<b>Mechanical</b>	<b>PENTAGAON SPACE</b>
<b>06</b>	<b>Krishna Panchal</b>	<b>Mechanical</b>	<b>3M software</b>
<b>07</b>	<b>Sourabh Moholkar</b>	<b>Mechanical</b>	<b>3M software</b>
<b>08</b>	<b>Arbaj Aslam Mulla</b>	<b>Mechanical</b>	<b>3M software</b>
<b>09</b>	<b>Rutuja Kolhe</b>	<b>Mechanical</b>	<b>Exotron thermal Pvt Ltd</b>
<b>10</b>	<b>Sourabh Moholkar</b>	<b>Mechanical</b>	<b>Tecxonic</b>
<b>11</b>	<b>Pravin Benni</b>	<b>Mechanical</b>	<b>Craft and Technik Industries</b>
<b>12</b>	<b>Swapnil Diddi</b>	<b>Mechanical</b>	<b>Craft and Technik Industries</b>
<b>13</b>	<b>Tejas Shelar</b>	<b>Mechanical</b>	<b>Craft and Technik Industries</b>
<b>14</b>	<b>PrathameshKapadne</b>	<b>Mechanical</b>	<b>Craft and Technik Industries</b>
<b>15</b>	<b>Prathmesh Vishwas Nirmal</b>	<b>Mechanical</b>	<b>Eleation</b>
<b>16</b>	<b>SohelShadul Shaikh</b>	<b>Mechanical</b>	<b>QSpiders</b>
<b>17</b>	<b>AmeyaTadavalkar-MECH</b>	<b>Mechanical</b>	<b>QSpiders</b>
<b>18</b>	<b>Arbaj Mulla-MECH</b>	<b>Mechanical</b>	<b>QSpiders</b>
<b>19</b>	<b>Pratik DevramThitme</b>	<b>Mechanical</b>	<b>Excel R Solutions</b>
<b>20</b>	<b>Aniket Rameshwar Mane</b>	<b>Mechanical</b>	<b>HCL- Smartbrains</b>

21	Sohel Shaikh	Mechanical	HCL- Smartbrains
22	AmeyaTadavalkar	Mechanical	HCL- Smartbrains
23	Nikhil Shirse	Mechanical	Housiey.com
24	Shreeyashprabhune	Mechanical	Vertex Infracore Solutions
25	Akshaypatil	Mechanical	Vertex Infracore Solutions
26	Ganesh MachindraDevkar	Mechanical	Mayuresh Engineers & Fabs.
27	Ganesh MachindraDevkar	Mechanical	Mold Tek India
28	Atharva Khole	Mechanical	Helical Technology
29	Raj Deshmukh	Mechanical	Profcyma Career Solutions LLP
30	Arbaj Mulla	Mechanical	Profcyma Career Solutions LLP
31	Aniket Mane	Mechanical	Upgrad
32	Aniket Mane	Mechanical	Justdial
33	Ketan Dhamdhare	Mechanical	Profcyma Career Solutions LLP
34	VivekKokare	Mechanical	Profcyma Career Solutions LLP
35	Aniket Mane	Mechanical	Profcyma Career Solutions LLP
36	GORE ROHAN ASHOK	Mechanical	Craft and Technik Industries
37	GUBNAR KRISHNA UMAJI	Mechanical	Craft and Technik Industries
38	Ganesh MachindraDevkar	Mechanical	BOBST India Pvt. Ltd
39	Rohan Gore	Mechanical	BOBST India Pvt. Ltd
40	Rutuja Kolhe	Mechanical	WRITGEN Pvt. Ltd.
41	Pournima Deshmukh	Mechanical	WRITGEN Pvt. Ltd.
42	Meet Jain	Mechanical	SMI GLOBAL Business Solutions Pvt Ltd
43	Akshay Patil	Mechanical	SMI GLOBAL Business Solutions Pvt Ltd

**TSSM's**

**PADMABHOOSHAN VASANTDADA PATIL INSTITUTE OF TECHNOLOGY,  
BAVDHAN,PUNE-21**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Placed Student list 2022-23**

<b>Sr.No.</b>	<b>Name of Student</b>	<b>Branch</b>	<b>Branch</b>
01	Tejswini Shendkar	Mechanical	Excel-R
02	Vikas Pawar	Mechanical	Intra industries Pvt Ltd.
03	Ashish Vanjari	Mechanical	Intra industries Pvt Ltd.
04	Avinash Pawar	Mechanical	Intra industries Pvt Ltd.
05	Sourabh Verma	Mechanical	Rolls Royce (Internship)
06	Ashish Vanjari	Mechanical	SMI Global Pvt Ltd.
07	Amruta Yadav	Mechanical	SMI Global Pvt Ltd.
08	Suraj Gadadare	Mechanical	SMI Global Pvt Ltd.
09	Neeraj Huprikar	Mechanical	Applus IDIADA
10	Neeraj Huprikar	Mechanical	Ion Exchange India Ltd
11	Subham Shahane	Mechanical	Ion Exchange India Ltd
12	Abhijiy Gaurkar	Mechanical	Ion Exchange India Ltd
13	Nitish Rathod	Mechanical	Ion Exchange India Ltd
14	DevrasPreeti	Mechanical	Ion Exchange India Ltd
15	Gaurav Sapkal	Mechanical	Tefcon Bearings Ltd.
16	Vishwas Kengare	Mechanical	Tefcon Bearings Ltd.
17	Amruta Yadav	Mechanical	Altem Technologies Pvt. Ltd.
18	Nitish Rathod	Mechanical	Altem Technologies Pvt. Ltd.
19	Ashish Vanjari	Mechanical	Helical Technologies
20	Purvash Gole	Mechanical	Hyperbaric Technologies Pvt. Ltd.
21	Amruta Yadav	Mechanical	ATQ Metro PVt. Ltd
22	Sushilkumar Dorle	Mechanical	ElenoPVt. Ltd



THE SHETKARI SHIKSHAN MANDAL'S  
**PADMABHOOSHAN VASANTDADA PATIL  
INSTITUTE OF TECHNOLOGY (PVPIT, PUNE)**  
DTE CODE - EN 6122



**TRAINING & PLACEMENT CELL**



Heartiest  
*Congratulations*



**Nitish Rathod**  
Mechanical Engineering



**Abhijay Gaurkar**  
Mechanical Engineering



**Subham Shahane**  
Mechanical Engineering



**Neeraj Huprikar**  
Mechanical Engineering



**Devras Preeti**  
Mechanical Engineering

For Getting Placed In  
**ION EXCHANGE with 4 LPA**



It is a Remarkable Achievement For Placements

**in Core Mechanical Engineering 2024 Batch**



• With Best Compliments From •  
Management, Principal, HOD, TPO & All Teaching and non- Teaching staff



## Details about Clubs and its Achievements

### Centre of Excellence “Robotics Club”

The Robotics club of PVPIT is a student run club on campus with an active participation of more than 200 students. The institute sensitizes the thrust area in Mechatronics which is fast developing technology. Robotics Club was started by students group in 2013 and is coordinated by senior faculty of domain expertise from Mechanical, Computer, E&TC departments. Within short period of time the robotics club is popular among the students. It took active participation in competitions like Robowar, Roborace, Robocon, etc. organized by various institutes of national eminence. Also students have participated and won prizes in various skill development clubs like E bike, Go-kart, BAJA, Supra, etc.

### Objective

- To facilitate students to understand design and learn robotics.
- To update students about recent technological changes in industry.
- To enhance employability and entrepreneurship.
- To provide interested students with opportunities to express the skills knowledge and creativity through conceptualizing, designing and programming robots.

### Facilities

- Hydraulic, pneumatic components
- Computers, PCB Printing, Soldering, Sensors.
- Bench vice, grinder, drill, Files, cutters, tool box.
- Central machine shop with CNC / Drill / milling and Lathe
- Geared motors, drivers, controllers, wheels, etc.

## Funds provided by

- TSSM Management
- Mechanical Engineering Students Association(MESA)
- Civil Engineering Students Association(CESA)
- Computer Engineering Students Association(CESA)
- Electronics Engineering Students Association(EESA)

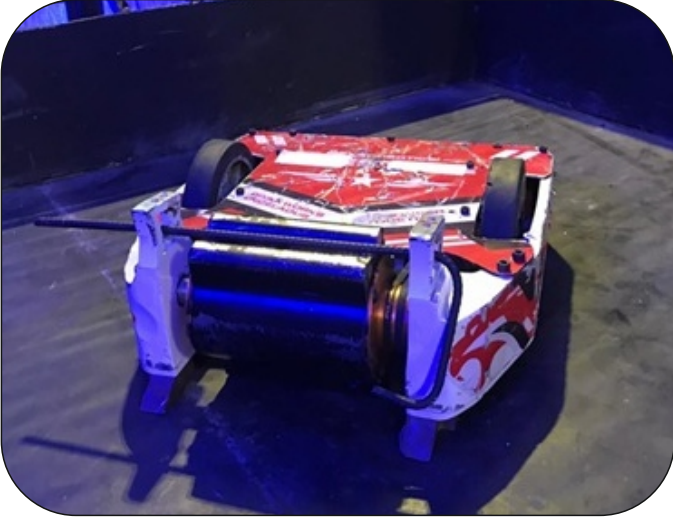
## Lab Utilization



## Outcome/Achievements



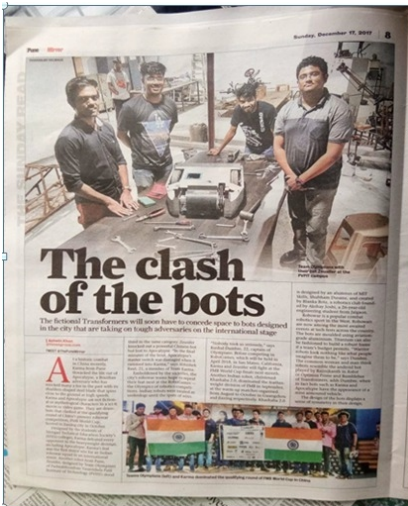
**Indian Champions  
of Robot Wars**



## Robotic Bot's

Sr. No	College Name	Event Name	Year	Position
1	IIT- Mumbai- International Robowar	Techfest	2022	1st
2	VJTI, Technovanza, Mumbai	Technovanza	2019-2020	1st
3	Amity University, Mumbai	Technicia	2019	1st
4	VJTI, Mumbai	Technovanza	2018-19	2nd
5	SPCOE, Mumbai	Spectra 2019	2019	3rd
6	SVERI, Pandarpur	OLYMPUS	2019	1st
7	SVERI, Pandarpur	OLYMPUS	2019	2nd
8	COEP, Pune	Mindspark	2019	3rd
9	IIT Mumbai	Techfest	2017	3rd
10	Zeal College, Pune	NIRMAN	2018	4th
11	SVERI, Pandarpur	OLYMPUS	2018	1st
12	SVERI, Pandarpur	OLYMPUS	2018	2nd
13	COEP, Pune	Mindspark	2018	1st
14	PVPIT, Pune	Acclivity	2017	1st

## International Achievement of Robotics club 2017 News Recognition



## Times Of India Documentary News of P.V.P.I.T Students

# International Achievement of 2018



**26th January 2018, Runner-up Position at Fmb World Cup,  
China with College Team Collaboration**

**P.V.P.I.T Prixx Team with well known teams  
from other Countries**



**Uairrors, Brazil**



**Team Railgun, China**



**Riobotz, Brazil**



**Invited for Robot Agent Challenge  
held on 8th August 2018,  
Las Vegas, USA**



**International Achievements Of 2019, Invitation From Iran,  
Robo Skill International robowar 110kg Event**





**N.I.T Warangle 1st Position at Robowar**



**1st Position At V.J.T.I, Mumbai,  
Technovanza-2019, Robowar**

## Achievements of 2022



**Winners at Asia's Biggest Techfest IIT-Techfest  
International Robowar-2022**

## Battle Of Robots- Russia 2023



**Robotic Bot Battled at Russia, 1st position  
at Battle of Robot Russia**

## Team Prixx Peaks

**FMB, China  
World cup  
Championship, China**



**Robot Agent Challenge.  
Shanghai, China**

**V.J.T.I, India  
Combat Robotics**



**ALL' BOUT BOTS TALK SHOW.**



**AMITY UNIVERSITY 30KG  
ROBOWAR 1<sup>ST</sup> PRIZE.**



**Team Prixx Got Chance to Meet  
Chief - Minister Of Maharashtra  
Hon. Mr. Eknath Shinde before going to  
ROBO Games-USA-2023**

## IHFC Internship iit Delhi



### Robo Race ATV Bot 2024 Secured 1st Position

## Professional Chapters and Activities under it

### SEA India

SAE International is a global professional association and standards organization based in Warrendale, Pennsylvania, United States. Formerly the Society of Automotive Engineers, the organization adopted its current name in 2006 to reflect both its international membership and the increased scope of its activities beyond automotive engineering and the automotive industry to include aerospace and other transport industries, as well as commercial vehicles including autonomous vehicles such as self-driving cars, trucks, surface vessels, drones, and related technologies.

### SAEIWS 'Automotive Technology Seminar by SEAINDAI

Department of Mechanical Engineering, P.V.P.I.T. Bavdhan has conducted a one day Seminar on SAEIWS 'Automotive Technology Seminar' in association with Society of Automotive Engineers (SAE India) Pune on Thursday, 15th February 2024 in V.C. Hall. The seminar was about Patents, E-Vehicles, Alternative Fuels and Taguchi Method. 65 students and 20 faculty members across the college have actively participated in this seminar.

The workshop was started by the inauguration session. The workshop was inaugurated by honorable principal Dr. R. S. Pawar Sir and .... The workshop was carried out in 4 sessions. The speaker and the guest of honour was Mr. Tushar Kanikdale, Mr. Sanjay Nibandhe, Mr. Shailesh Sonawane, Mr. R. K. Agrawal from Association of Automotive Engineers (SAE India) Pune.



## Research Activities / Research Projects etc.

### Paper Published

Sr. No.	Title	Journal	Faculty
1	Assessing the Impact of Green Supply Chain Management on Reducing Carbon Emissions and Mitigating Climate Change	European Chemistry Bulletin	Dr. R S Pawar
2	ADFT investigation on transition metal (Co, Cr, Cu, Mn, Mo and Nb) doped Bismuth Ferrite Oxide (BiFeO <sub>3</sub> ) for CO gas adsorption	Theoretical Chemistry Accounts	Dr. R S Pawar
3	Surface Characteristics of finish Hobbed Gear-a Review	International Journal of Interdisciplinary Innovative Research & Development (IJIIRD)	Dr. R S Pawar
4	Adsorption Study of Carbon Monoxide on Modified Metal and Non-metallic Surface Using Density Functional Theory: A Short Review Towards Functional Materials	First International Conference on Advances in Computer Vision and Artificial Intelligence Technologies (ACVAIT 2022)	Dr. R S Pawar
5	Design and Testing of Composite Material T-Joint for Naval Ship Using FEA	International E-Conference on "Interdisciplinary Perspective of Basic and Engineering Science" In Association with International Journal of Scientific Research in Science and Technology	Dr. R S Pawar
6	DESIGN AND TESTING OF LIGHTWEIGHT SANDWICH T-JOINT OF COMPOSITE MATERIAL USING FEA AND EXPERIMENTAL TECHNIQUE	Gradiva Review Journal	Dr. R S Pawar
7	Adsorption of gas molecules (CO, CO, NO, NO, and CH) on undoped and Ag-doped bismuth ferrite oxide (BFO) by DFT investigation	Journal of Materials Research	Dr. R S Pawar
8	Capacitive Extensometry for the Estimation of Meaningful Stretch-Dependent Dielectric Strength of Dielectric Elastomer	IEEE Transactions on Dielectrics and Electrical Insulation	Dr. Ajeet Kumar

9	Energy harvesting by piezoelectric polyvinylidene fluoride/zinc oxide/carbon nanotubes composite under cyclic uniaxial tensile deformation	Polymer Composites	Dr. Ajeet Kumar
10	Proposal of a generic constitutive model for deformation-dependent dielectric constant of dielectric elastomers	Engineering Science and Technology, an International Journal	Dr. Ajeet Kumar
11	Investigation on performance characteristics of micro-EDM dressing for the fabrication of micro-rod (s) on Ti-6Al-7Nb biomedical material	Machining Science and Technol.	Dr. M D Shamim Shah
12	Review paper on Prosthetic leg design, material selection and Cost	IJSREM	Dr. P. M. Bagade
13	Parametric analysis of air cooler using experimental technique	Int. J. Scientific Development and Research	Dr. P. M. Bagade
14	Analysis of Weight Optimization of Automobile shaft by using Aluminum and Glass Fibre Composite Material	Innovative journal for Opportunities and Development in Science and Technology	Dr. C. M. Sedani

## Project

Wind Energy Harvesting Tree Project by Dr. Pramodkumar M. Bagade in the year 2019 received budget of Rs,2524295 for 3 years by DST- SERB.

## University Results

University Topper

Sr. No.	Class	Particulars	Name of the Student	CGPA
1	SE	4th Rank at SPPU University in May 2021 Exam	Sohail Shadul Shaikh	9.8

Departmental Topper List A. Y 2022-23

Sr. No.	Class	Particulars	Name of the Student	CGPA
1	SE	1st Topper	Atish Shivaji Divekar	7.23
2		2nd Topper	Balaji Lahu Ughade	7.09
3		3rd Topper	Rajeev Sagar Dhavale	6.98
4	TE	1st Topper	Kunal Kiran Pasalkar	8.05
5		2nd Topper	Rohan Rajendra Paigude	7.98
6		3rd Topper	Tejswini Ajit Shendkar	7.93
7	BE	1st Topper	Sohail Shadul Shaikh	8.85
8		2nd Topper	Tanmay Yadunath Mahajan	7.55
9		3rd Topper	Rohan Gore	8.40

# Aeromodelling Club

## Seminar on Anti Drone System by Adani Defence Aerospace



## Aeromodelling Team at Chitkara University for National Hackathon-22 (Punjab)

## Total 250 Team Participated



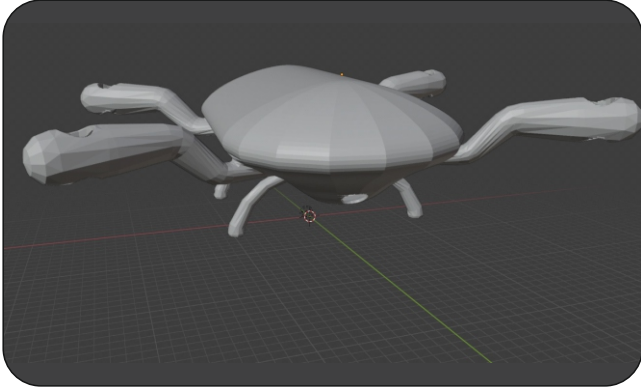
# Smart India Hackathon(SIH) 2023

- On 15th of September 2023, one day offline Internal Smart India Hackathon 2023 was organized
- Total seven teams participated in SIH- 2023 from entire college



# Product Design & Development

## Anti Drone System Design





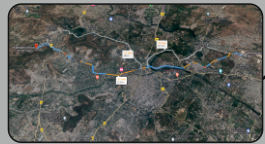


# PVPIT

## BAVDHAN, PUNE



Hinjawadi To PVPIT  
16.5 km



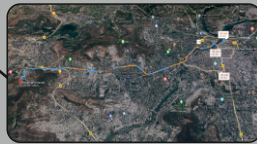
International Airport to PVPIT  
24 km



**PVPIT**  
BAVDHAN, PUNE



Kothrud depo To PVPIT  
4.3 km



Railway Station Rd to PVPIT  
18 km

*Thank you....*

For more details

**Prof. Amit B. Maske**

Mechanical Engineering Department

**Contact:- 8208943499**

**S.N. 33/22, Near Chandani Chowk,  
Opp. Athashree Project, Pirangut Road,  
Bavdhan, Pune - 411 021**