THE SHETKARI SHIKSHAN MANDAL'S

PADMABHOOSHAN VASANTDADA PATIL INSTITUTE OF TECHNOLOGY (PVPIT, PUNE)

विद्या ददाति विनयं,विनयाद् याति पात्रताम् ।

PVPIT TECH CLUB's

PVPIT Students are working in five technical clubs beyond the university curriculum. These TECH CLUB's have achievements at national and international level PVPIT TECH CLUB's are as follows

1. Robowar club
2. Robocon club
3. Gokart club
4. Call of Code club
5. Drone Club

https://pvpittssm.edu.in

CENTRE OF EXCELLENCE

"ROBOTICS CLUB"

About 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

Index

Vision Mission of Robotics Club

Vision

- To stimulate interest in robotics among students and spread knowledge about robotics and its diverse applications.

- To foster a community of passionate individuals dedicated to exploring and advancing the field of robotics, where creativity, innovation, and collaboration thrive, and where members develop the skills and knowledge to become leaders in robotics and related technologies.

Mission

- Provide a platform for members to explore various aspects of robotics, including design, construction, programming, and application.

- Foster a culture of learning and skill development through workshops, seminars, and hands-on projects, empowering members to develop proficiency in robotics technologies.

Policies

- Build and Learn with Robots
- Solve Challenges and Compete
- Share and Collaborate
- Education and Skill Development
- Collaboration and Networking
- Innovation and Creativity

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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

- There are two teams works under Robotics Club
- One for Robo war and one for Robocon

1. Team Prixx & 2. Tech-Titans

Team Prixx

Robowar Teamprixx

https://www.prixxworks.com/robowars

INDIAN CHAMPIONS OF ROBOT WARS

Team Prixx

TEAM PRIXX was Founded in September, 2016 by Mr. Sushant Barde as student, under which we played many National Robotics Events . In August 2017, we collaborated with our College Senior Team in Pune and participated in many National and International Events.

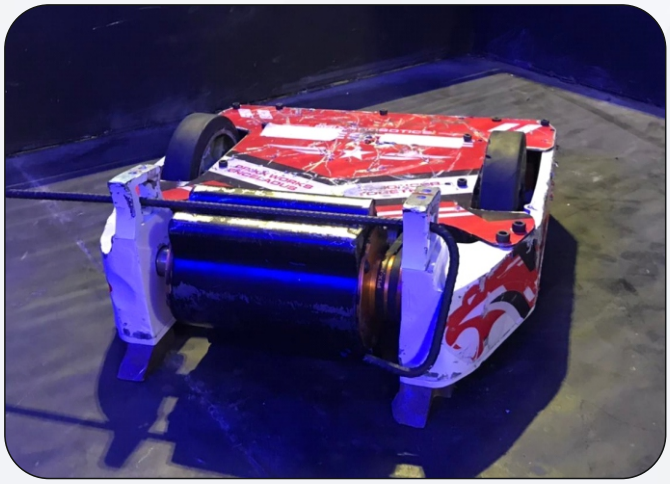
Our main focus is on designing and making innovative changes in our Combat Robots which allows us to get counted in Top-5 teams of India and having most Dominant robots in the Robot-Wars.

Currently our Team consist of 12members, who are working in different sector like Management, Mechanical engineering, Computer Engineering, Electronics Engineering and Designing and we are also in our Start-up which is in the Manufacturing sector itself.

Our Team

Sr. No	NAME	Designation	DESCRIPTION
1	SUSHANT BARDE	CAPTAIN AND ROBOT OPERATOR	University of Westminster, Cavendish, London
2	Jhanvi Kharad	MEMBER	PVPIT, Pune
3	KARTIK SHINDE	MENTOR AND DESIGN HEAD	Working Professional
4	RUTUJA GOPHANE	COMPUTER HEAD	Working Professional
5	ROHAN KHOPADE	MANUFACTURING HEAD	Working Professional
6	NIKHIL PATIL	PROCESS MANAGER	Working Professional
7	CHAITANYA GAIKWAD	MECHANICAL	Working Professional
8	OM DOLAS	MECHANICAL	Working Professional
9	NISARG SHILOTRI	Jr. DESIGNER	Student
10	NANDINI PANKAR	ELECTRONICS HEAD	Student
11	RAJ GORALE	MECHANICAL	Student
12	UMESH WAYKOLE	Jr. ASSISTANT in ELECTRONICS	Student

Robowar

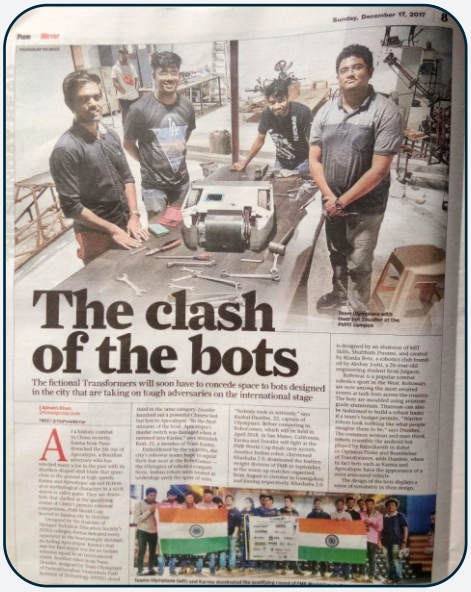


Robotic Bot's

National Achievements

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



Sunday, December 17, 2017

The clash of the bots

The fictional Transformers will soon have to concede space to bots designed in the city that are taking on tough adversaries on the international stage

लोकमत

पीव्हीपीआयटीच्या विद्यार्थ्यांचे यश

लोकमत न्यूज नेटवर्क

भूगाव : दि शेतकरी शिक्षण मंडळ संचालित पद्मभूषण वसंतदादा पाटील इन्स्टिट्यूट ऑफ टेकनॉलॉजी बावधन पुणे, येथील विद्यार्थ्यांनी नुकत्याच झालेल्या एफएमबी वर्ल्ड कप चॅम्पियनशिप मॅचेसमध्ये तिसऱ्या क्रमांकाचे बक्षीस मिळविले आहे.

ही स्पर्धा आंतरराष्ट्रीय स्तरावर जियाझिंग (चीन) येथे घेण्यात आली. या स्पर्धेचे आयोजन फायटिंग माय बोट्स (एफएमबी)कडून दर वर्षी करण्यात येते. यामध्ये जगभरातून अभियांत्रिकीच्या विद्यार्थ्यांनी बनविलेल्या ठराविक नामांकित रोबोटना आमंत्रित केले जाते. या स्पर्धेत पीव्हीपीआयटीच्या रोबोटकडून चीनच्या सर्वोत्तम रोबोटवर मात करुन विजय संपादन केला. हा रोबोट तयार करण्यासाठी बी.ई. व एम.ई. मेकेनिकलच्या कुशल डुंबरे, नयन पाटील, समीक्षा पारधे, सुशांत बरधे, अमृत पंडित, अक्षय वाघ व प्रा. वि. पी. माळी यांनी परिश्रम घेतले. तसेच, संस्थेचे सचिव जी. टी. सावंत, आर. टी. सावंत, प्राचार्य डॉ. सी. एम. सेदानी यांनी विद्यार्थ्यांचे अभिनंदन केले.

Hello Pune Gramin
Page No. 3 Nov 21, 2017
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'पीव्हीपीआयटी'च्या यशस्वी विद्यार्थ्यांचा सत्कार करताना मान्यवर.

'पीव्हीपीआयटी'चे आंतरराष्ट्रीय स्पर्धेत यश

खारावडे : दि शेतकरी शिक्षण मंडळ संचालित पद्मभूषण वसंतदादा पाटील इन्स्टिट्यूट ऑफ टेकनॉलॉजी, बावधन, पुणे, येथील विद्यार्थ्यांनी एफएमबी वर्ल्ड कप चॅम्पियनशिप मॅचेसमध्ये तिसऱ्या क्रमांकाचे बक्षीस मिळवले आहे. ही स्पर्धा आंतरराष्ट्रीय स्तरावर चीन येथे घेण्यात आली. स्पर्धेचे आयोजन फायटिंग माय बोट्सकडून (एफएमबी) दरवर्षी करण्यात येते. यामध्ये जगभरातून अभियांत्रिकीच्या विद्यार्थ्यांनी बनविलेल्या ठराविक नामांकित रोबोटना निमंत्रित केले जाते. या स्पर्धेमध्ये पीव्हीपीआयटीच्या रोबोटकडून चीनच्या सर्वोत्तम रोबोटवर मात करून विजय संपादन केला. हा रोबोट तयार करण्यासाठी बीई व एसई मेकॅनिकलच्या कुशल डुंबरे, नयन पाटील, समीक्षा पारधे, सुशांत बरधे, अमृत पंडित, अक्षय वाघ व प्रा. व्ही. पी. माळी यांनी परिश्रम घेतले. रोबोट तयार करण्यासाठी संस्थेकडून ८ लाख रुपयांची मदत करण्यात आली. यशस्वी विद्यार्थ्यांचे संस्थेचे अध्यक्ष डॉ. टी. जे. सावंत यांच्याकडून प्रशस्तिपत्र व सन्मानचिन्ह देऊन गौरव करण्यात आला.

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

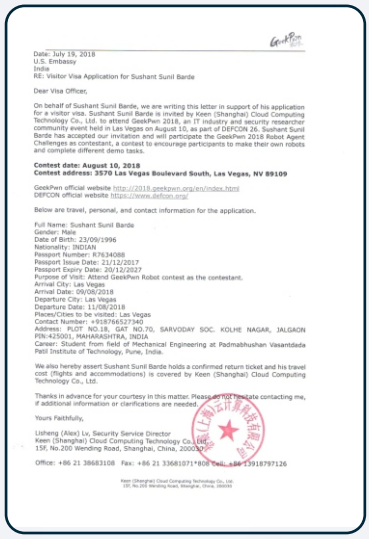
P.V.P.I.T Prixx Team With Well Known Teams from other Countries.

Uairrors, Brazil

Team Railgun, China

Riobotz, Brazil

International Achievement Of 2018



Date: July 19, 2018
U.S. Embassy
India
RE: Visitor Visa Application for Sushant Sunil Barde

Dear Visa Officer,

On behalf of Sushant Sunil Barde, we are writing this letter in support of his application for a visitor visa. Sushant Sunil Barde is invited by Keen (Shanghai) Cloud Computing Technology Co., Ltd. to attend GeekPwn 2018, an IT industry and security researcher community event held in Las Vegas on August 10, as part of DEFCON 26. Sushant Sunil Barde has accepted our invitation and will participate the GeekPwn 2018 Robot Agent Challenges as contestant, a contest to encourage participants to make their own robots and complete different demo tasks.

Contest date: August 10, 2018
Contest address: 3570 Las Vegas Boulevard South, Las Vegas, NV 89109

GeekPwn official website http://2018.geekpwn.org/en/index.html
DEFCON official website https://www.defcon.org/

Below are travel, personal, and contact information for the application.

Full Name: Sushant Sunil Barde
Gender: Male
Date of Birth: 23/09/1996
Nationality: INDIAN
Passport Number: R7634088
Passport Issue Date: 21/12/2017
Passport Expiry Date: 20/12/2027
Purpose of Visit: Attend GeekPwn Robot contest as the contestant.
Arrival City: Las Vegas
Arrival Date: 09/08/2018
Departure City: Las Vegas
Departure Date: 11/08/2018
Places/Cities to be visited: Las Vegas
Contact Number: +918766527340
Address: PLOT NO.18, GAT NO.70, SARVODAY SOC. KOLHE NAGAR, JALGAON PIN:425001, MAHARASHTRA, INDIA
Career: Student from field of Mechanical Engineering at Padmabhushan Vasantdada Patil Institute of Technology, Pune, India.

We also hereby assert Sushant Sunil Barde holds a confirmed return ticket and his travel cost (flights and accommodations) is covered by Keen (Shanghai) Cloud Computing Technology Co., Ltd.

Thanks in advance for your courtesy in this matter. Please do not hesitate contacting me, if additional information or clarifications are needed.

Yours Faithfully,

Lisheng (Alex) Lv, Security Service Director
Keen (Shanghai) Cloud Computing Technology Co., Ltd.
15F, No.200 Wending Road, Shanghai, China, 200335

Office: +86 21 38683108 Fax: +86 21 33681071*808 Cell: +86 13918797126

Keen (Shanghai) Cloud Computing Technology Co., Ltd.
15F, No.200 Wending Road, Shanghai, China, 200335

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

Achievement Of 2019-2020

N.I.T Warangle
1st Position at Robowar

Achievement Of 2019-2020

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

Achievements Of 2022

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

International Achievements Of 2023

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

Asia's Largest Techfest Iit, Techfest,mumbai 2024

Team Prixx Participating at Asia's Largest Techfest

Team Prixx Peaks

ALL' BOUT BOTS TALK SHOW.

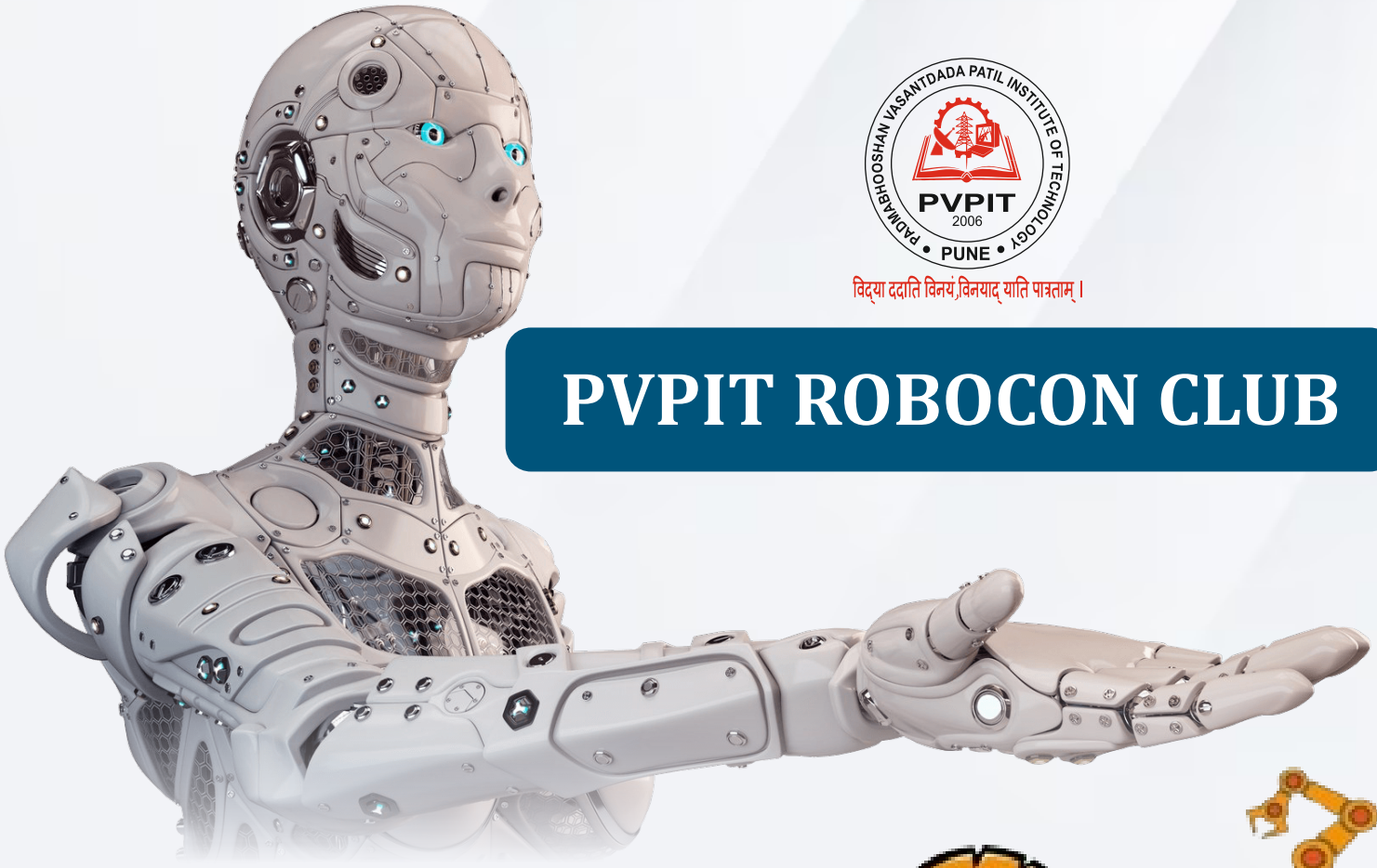
AMITY UNIVERSITY 30KG
ROBOWAR 1ST PRIZE.

Team Prixx GOT CHANCE TO MEET CHIEF-MINISTER OF MAHARASHTRA Hon. Mr. Eknath Shinde before going to ROBOGAMES-USA-2023

For More information, Follow Team Prixx on Social Media:

Visit our Official website.

https://www.prixxworks.com/robowars



PADMABHOOSHAN VASANTDADA PATIL INSTITUTE OF TECHNOLOGY
PVPIT
2006
PUNE

विद्या ददाति विनयं,विनयाद् याति पात्रताम् ।

PVPIT ROBOCON CLUB

ACHIEVEMENTS

TECH TITANS

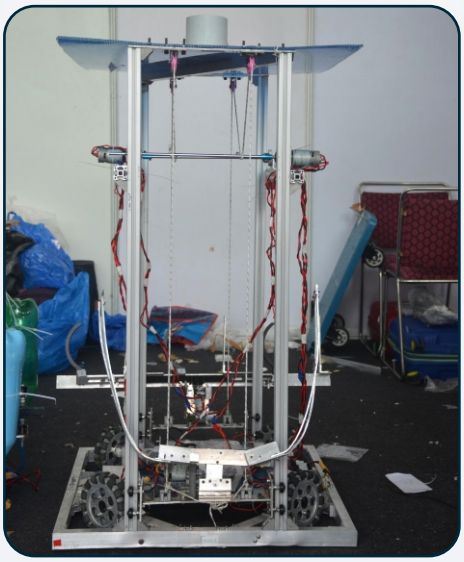
Abu Robocon 2022 Theme Lagori

Lagori is a traditional and one of the most played ancient games that originate in the southern part of India. It was one of the most popular game in India around the 1990s. This year the game is between two teams (Team 1 : “Seeker” and Team 2 : “Hitter”) and the game starts by throwing a ball by the seeker to break a disc tower called lagori. While this seekers try to pile up the discs again, the hitter throws ball to interrupt them.

Dd Robocon 2022

Secured Air Position 11

ROBOT R-1



ROBOT R-2

Best Reporting Award in DD Robocon 2022

ROBOCON
2022, NEW DELHI, INDIA
ABU ASIA-PACIFIC ROBOT CONTEST

Website: www.ddrobocon.in E-mail: info@ddrobocon.in

Best Reporting Award

To whomsoever it may concern,

This is to certify that Padmabhooshan Vasantdada Patil Institute of Technology, Pune is awarded the **Best Reporting Award** in DD Robocon 2022 held on 16th & 17th July 2022 and organized by the Indian Institute of Technology Delhi in collaboration with Prasar Bharati.

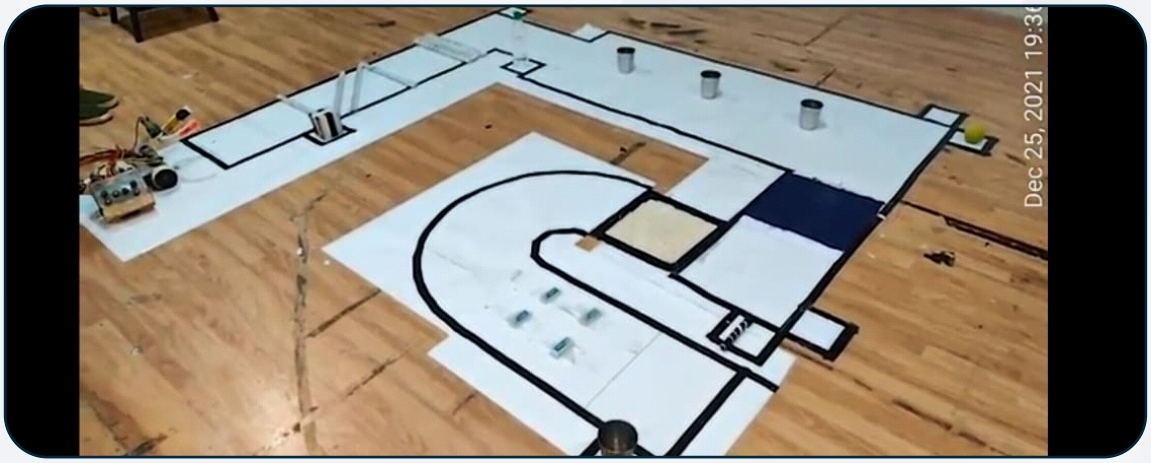
Prof. Subir Kumar Saha
Professor, IIT Delhi

Prof. S. K. Saha
Organizer, IIT Delhi
saha@mech.iitd.ac.in

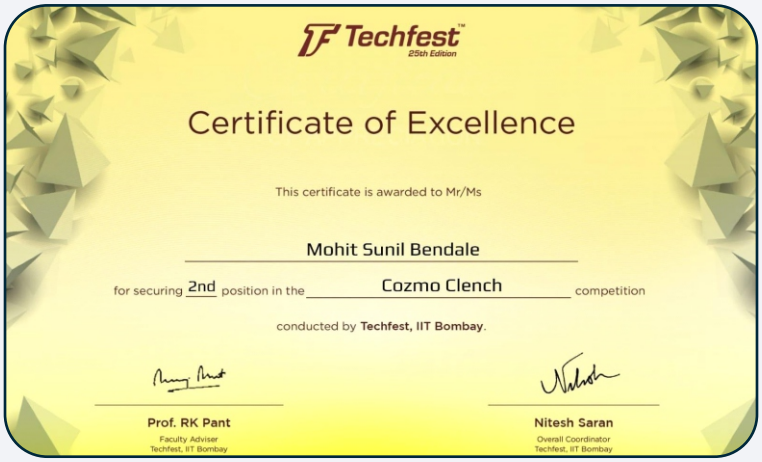
Prof. Sunil Jha
Co-Organizer, IIT Delhi
sunil@mech.iitd.ac.in

Prof. K. Rama Krishna
Co-Organizer, IIT Delhi
rk@mech.iitd.ac.in

Iit Bombay Techfest 2022 Cozmo Clench



Secured 2nd position


Techfest
25th Edition

Certificate of Excellence

This certificate is awarded to Mr/Ms

Mohit Sunil Bendale

for securing 2nd position in the Cozmo Clench competition

conducted by **Techfest, IIT Bombay.**

Prof. RK Pant
Faculty Adviser
Techfest, IIT Bombay

Nitesh Saran
Overall Coordinator
Techfest, IIT Bombay

Abu Robocon 2023 Theme
Casting Flowers Over Angkor Wat

Angkor Wat in Cambodia is well known as a breath-takingly beautiful temple complex which is the UNESCO world heritage site. In Cambodian fables, among many animal characters, rabbit is often featured as the symbol of wisdom while elephant is strong and has a gentle nature.

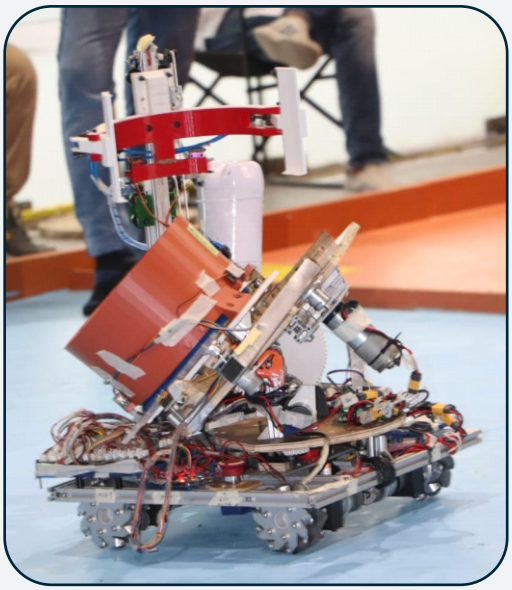
The theme of this year's competition is to cast flowers over Angkor Wat by the corporation of a rabbit robot and an elephant robot. The actual competition is "Ring Toss Game' using blue and red rings made of rubber hoses instead of flowers.

Theme Casting Flowers Over Angkor Wat

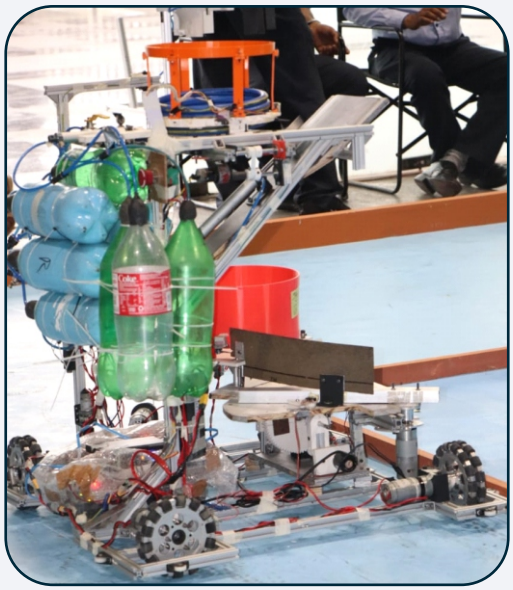
Secured Air 9

Abu Robocon 2023

Rabbit Robot



Elephant Robot



Line Follower 2024 Secured 1st And 2nd Position

I H F C Internship IIT Delhi

8 Students Selected For “IHFC Deep Tech Immersion Program”

Robo Race Atv Bot 2024 Secured 1st Position

Challenges

Forming a robotics club can be an exciting initiative, but it also comes with its own set of challenges. Here are some common challenges faced while forming a robotics club and while participating in various events.

- Generating Interest and Maintaining same interest of members through out the event
- Securing Funding:- Robotics projects often require funding for equipment, materials, competition fees, and other expenses. Securing financial support or sponsorship from the school, local businesses, or other organizations can be difficult, particularly for new or small clubs without a proven track record.
- Finding Mentors:- Finding mentors or advisors with expertise in robotics, electronics, programming, or engineering who are willing to volunteer their time can be challenging.
- Time Management:- Coordinating schedules and managing time effectively to accommodate the academic, extracurricular, and personal commitments of club members can be challenging. Finding convenient meeting times and balancing the workload can be difficult, particularly during busy periods such as exams or competitions.

Conclusions

In conclusion, robotics clubs play a crucial role in inspiring and empowering students to explore the exciting world of robotics, fostering a passion for learning, innovation, and collaboration. By providing a supportive and enriching environment for students to develop their skills and pursue their interests, robotics clubs contribute to the development of future leaders and innovators in science and technology.

- **Competitive Spirit:** Robotics clubs foster a competitive spirit among members, motivating them to strive for excellence and achieve success in robotics competitions and challenges.
- **Personal Growth:** Participation in a robotics club promotes personal growth and development by building confidence, leadership skills, and resilience. Students learn to overcome challenges, adapt to new situations, and take on leadership roles within the club, preparing them for success in future endeavours.
- **Teamwork and Collaboration:** Robotics clubs foster teamwork and collaboration among members, as students work together to design, build, and program robots for various challenges and competitions. Collaborative projects encourage communication, cooperation, and the sharing of ideas among club members.

GOKART CLUB

THE THRILLS OF GO KARTING

ISIE Drive Your Dreams®
INDIA
IMPERIAL SOCIETY OF INNOVATIVE ENGINEERS
National Youth Award Winner 2015-16, Ministry of Youth Affairs, GOI

ISIE
INDIAN KARTING
Be a part of Challenge

Introduction

GO KART is a small, four-wheeled vehicle often used for recreational or competitive racing.
They are popular among racing enthusiasts, as they prove an accessible way to experience the thrill of racing at relative speeds compared to other motorsports.
They come in various sizes and styles, from simple homemade models to high performance racing machines.

History Of Go Karting

The father of go kart is Art Ingels who worked as fabricator for famous racing Kurtis Kraft.
In 1956, Art Ingels and Lou Bourelli rebuilt lawnmower engines and merged them with customed chassis.
Duffy Livingstone and Roy Desbrow are often thought of as go-karting pioneers. After their endeavours with Go-Kart Manufacturing (GKM), they began to set up go-kart races at Rose Bowl car park in Pasadena. Ingels was also involved in these competitions.
Over the years, the global go-kart market has increased to an estimated value of $104.8 million in 2020, with projected numbers reaching $154.3 million by 2030.

Types Of Go Kart

Sprint Kart

Sprint karts prioritize speed and skill, making them an optimal choice for short and twisty tracks.
They come in various sizes and styles, from simple homemade models to high performance racing machines.

Oval Kart

Oval karts are engineered to achieve maximum velocity and maintain consistent turns on their namesake tracks.
They come in various sizes and styles, from simple homemade models to high performance racing machines.

Enduro Kart

The enduro kart boasts a rugged construction and powerful engine, providing the durability and stamina required for long-distance racing.
They come in various sizes and styles, from simple homemade models to high performance racing machines.

Go Karting As A Sport

Go Kart is often considered an entry-level form of racing and serves as a foundation for many professional racing careers. Here are some key aspects of go karting as a sport:

1. Vehicles: Go-karts are small, lightweight, and typically powered by small engines, such as 2-stroke or 4-stroke engines.
2. Skill Development: Go karting requires a combination of driving skills, including cornering, braking, accelerating, and racecraft.

When you take a look at some of the biggest names in Formula 1 racing, you'll see that a lot of them started their motorsport career racing go-karts.

Ayrton Senna

Lewis Hamilton

Components Of Go Kart

1. Engine

Go-karts are either powered by electric motors or gas engines (petrol engines). Gas engines are also known as internal combustion engines, which are a type of heat engine. These engines use a fuel and air mixture, in order to power the go-kart through internal combustion. The internal combustion causes the pistons to move inside the cylinder, which in turn rotates the crankshaft.

2. Steering System

Once the rotation of the steering wheel takes place, the vehicle responds to this system. A Steering system is responsible for giving a quite smooth route which includes a group of parts which is referred to as the steering system which transmits the movement of the steering wheel down the steering shaft in order to move the wheel either left or right.

3. Battery

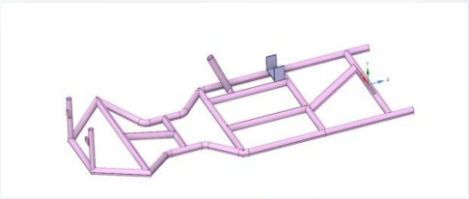
Electric go-karts are equipped with batteries that store energy, in order to power the electric components of go kart and to star the engine

Batteries on go-karts are most commonly connected in.

The average go-kart battery is rated at 12 volts with a typical capacity between 3 to 6 Ah.

4. Chassis

The images of the go-kart chassis provide a clear picture of the design and the various components used in the manufacturing process. The design of the chassis takes into account various parameters such as weight distribution, stiffness and strength, and safety requirements, to provide a safe, stable and high-performance vehicle



Conclusion

The objective of this project was to design and build a go-kart that met a set of requirements and constraints, including safety, performance, and cost.

And also to develop our knowledge and skills essential for project management. Few of them are as follows:

1. Team Coordination:- It calls for people with differing backgrounds, perspectives and thought-processes to come together to fulfill a goal or objective that is impossible to achieve single handedly.
2. Problem Solving:- Problem solving skills are collaborative, iterative_skills that help you approach a problem and, ultimately, solve it.
3. Time management:- Time management and organization skills go hand in hand. As you become better at organizing your tasks, you'll also have a clearer sense of everything that's on your plate and how long your upcoming tasks are going to take.

Department of Computer Engineering

Programming Club

CALL OF

CODE CLUB

COC

OUR JOURNEY

A POSITIE PEER LEARING COMMUNITY OF PASSIONA TEST UDENTSATPVPIT

Club Hierarchy

PRESIDENT

SARVESH
SHAHANE

VICE PRESIDENT

VANSH
WALDEO

SECRETARIES

ADITYA MODAK
&
SANICA CHOREY

PR MANAGER

ARYAN
JADILE

Who Are We?

Call of Code stands as a vibrant community of dedicated engineers and researchers from PVPIT, driven by the shared passion for coding. Our journey unfolds with resolute enthusiasm as we confront coding challenges, emphasizing the transformative power of self-learning.

At the core of our philosophy is the belief that coding should be an inspiring and enjoyable pursuit. The club is built on the understanding that self-learning is not just a method but a philosophy a journey that allows individuals to comprehend concepts from the very core of their being.

Call of Code is an inclusive space where we aim to nurture a community of learners who understand the significance of quantitative skills for professional growth. Learning, for us, is a shared experience, made more profound and enjoyable through mutual support.

Our engagement extends beyond the clubroom, as we actively participate in various inter-college, state-level, and national-level hackathons and coding competitions. Call of Code provides a dynamic platform for individuals to partake in these challenges, emphasizing the importance of collaborative learning. We firmly believe that self- learning is the key to understanding concepts at a profound level, instilling confidence in the practical application of acquired skills.

Call of Code is not just a club; it's a community that relies on the principles of self-learning, recognizing that true understanding arises when knowledge is internalized. Our approach goes beyond the conventional, fostering an environment where members learn not just for accolades but for the inherent satisfaction and depth of comprehension that comes from learning with one's heart and mind fully engaged.

WHEN OUR JOURNEY STARTED?

On the momentous morning of November 7th, 2022, a transformative chapter in the history of Call of Code unfolded at TSSM's Padmabhushan Vasantdada Patil Institute of Technology. At precisely 11:00 am, our club commenced its journey with a ceremonial ribbon-cutting event, graced by the esteemed presence of our Honorable Principal, Dr. R.S. Pawar.

In his capacity as a visionary leader, Dr. Pawar bestowed a symbolic inauguration upon Call of Code, signifying the commencement of our collective endeavors. This marked the official conversion of the 307 lab, formerly known as the Self-Learning Lab, into the nerve center for Call of Code-a strategic move that firmly established it as the core of our coding community.

The ribbon-cutting ceremony served as a powerful testament to the steadfast support and encouragement from the academic leadership. Prof. G.S. Wayal, the Honorable Head of the Computer Department, added significance to the occasion with his presence, emphasizing the importance of this initiative. The entire staff of the Computer Department contributed to the celebratory atmosphere, heralding the beginning of a journey characterized by innovation, collaboration, and a commitment to self-directed learning. This landmark event not only marked the physical establishment of our club but also symbolized the formal endorsement of our mission by the academic pillars of the institution. The ribbon-cutting ceremony, a defining moment, set the stage for the growth and accomplishments that would define the trajectory of Call of Code.

SMART INDIA HACKATHON 2023 FINALISTS

Team Digital Diplomats from the Call of Code Club achieved a remarkable feat by securing a position among the top 5 teams nationwide, outshining 500 teams in the Smart India Hackathon 2023. Their dedication and expertise shone through in addressing the Jharkhand government's challenge on enhancing Women's Safety in Colleges/Universities. Their success has earned them a spot in the SIH 2023 Finale scheduled for December 18, 2023, in Jaipur.

This achievement not only brings honor to the Call of Code Club but also underscores its commitment to fostering innovation
and Congratulations
in technology.
excellence
to Team Digital Diplomats, and best wishes for their continued
success in the SIH 2023 Finale.

Team Members

Eshwar Varpe(Captain)
(B.E Computer)
Franklin Viegas
(B.E Computer)
Anjali Bodke
(B.E Computer)
Bhaven Rathod
(T.E Computer)
Veda Bhadane
(S.E Computer)
Shreyas Kapse
(S.E Computer

RUNNER UPS AT BITS PILANI POSTMAN API HACKATHON 3.0

Recently, in the renowned BITS Pilani Postman API Hackathon 3.0, our dedicated team, known as Team API Architects, not only participated but secured a remarkable second place in the global competition. This month- long hackathon brought together brilliant minds from around the world, challenging them to develop impactful full-stack applications using APIs. Outshining 400 competing teams, Team API Architects earned the second position with their innovative solution, a testament to the dedication, talent, innovation that define and our programming club.

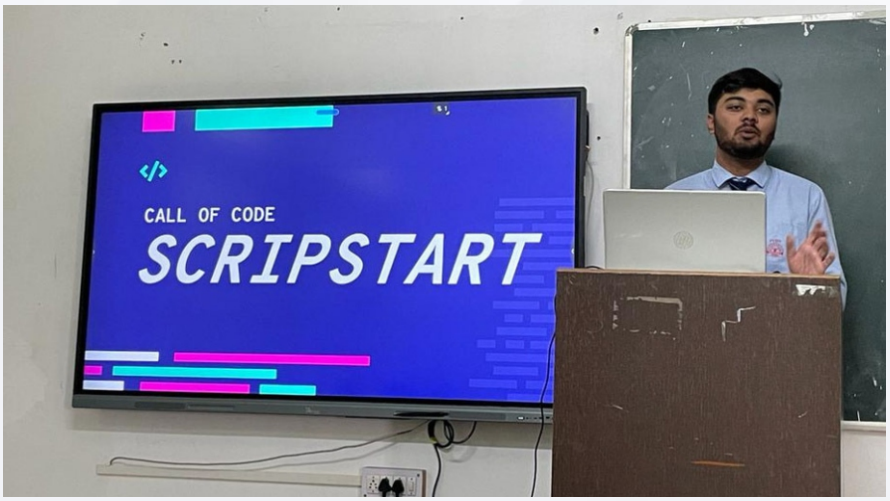
The team's success underscores the collaborative spirit and technical skill cultivated within the Call of Code Club. This outstanding achievement not only reflects the club's commitment to excellence but also contributes to its rich history of success on the global stage, further solidifying its reputation as a hub for exceptional programming talent. Let's extend a hearty round of applause to Team API Architects for their outstanding accomplishment and for bringing pride and recognition to our esteemed Call of Code community.

RUNNER UPS AT IXPLORER WEB DESIGN AND DEVELOPMENT HACKATHON, IIT PATNA

In a resounding achievement for the Call of Code Club, Team One Piece secured the runner-up position in the IXPlorer Web Design and Development Hackathon organized by IIT Patna. Navigating through two challenging rounds focused on UI/UX and Web Development, the team's success underscores their remarkable versatility and proficiency, setting a high standard by outshining over 100 registered teams.

Team One Piece addressed a real-world challenge posed by startup VitalEase Healthcare Solutions, securing the second position with their innovative solution. Their user-friendly web interface tailored for the elderly incorporates features such as medication schedule management, access to emergency contacts, seamless caregiver communication, and remote monitoring. The addition of a 24/7 chat bot providing immediate assistance on dietary choices and medication information directly addressed VitalEase's problem statement, offering vital support during critical times.

SCRIPSTART



On October 4, 2023, the Call of Code Club orchestrated an enlightening workshop named "Scripstart," under the guidance of esteemed senior members Shivaji Raut, Atharva Wader, and Abhiram Suradkar. This initiative was tailored to benefit newcomers by providing an introduction to the basics of C++, fundamental programming concepts, and hands-on exercises in C++. Additionally, participants gained valuable insights into the upcoming trends in the field of Artificial Intelligence.

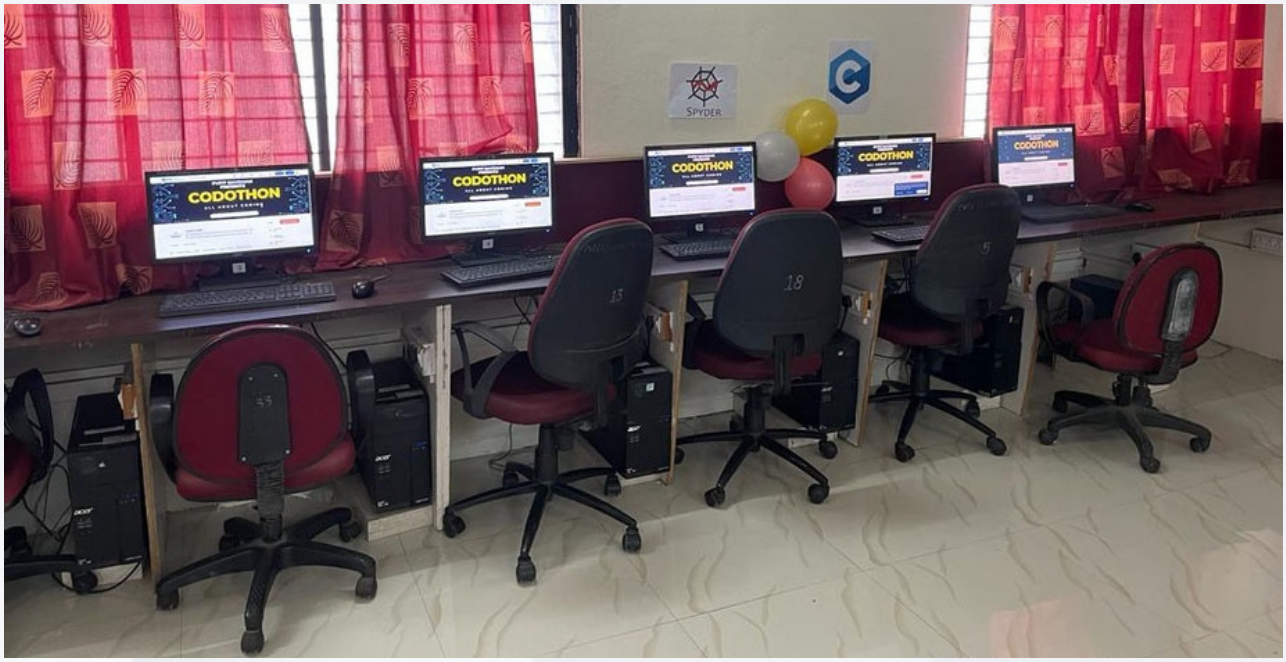
"Scripstart" served as a pivotal platform for addressing queries and concerns of prospective members, extending a warm welcome to interested freshmen from all academic years. Beyond focusing on technical knowledge, the workshop played a crucial role in cultivating a sense of community within the Call of Code Club.

The event was meticulously designed not only to augment participants' understanding of C++ and Al fundamentals but also to acquaint them with the core ethos of Call of Code. Attendees received a comprehensive overview of the club's activities, its mission, and the manifold benefits of being an integral part of this dynamic and vibrant coding community. Furthermore, "Scripstart" acted as a catalyst for expanding the Call of Code family, encouraging interested individuals to join and actively contribute to the collaborative and knowledge-sharing environment fostered by the club. With Shivaji Raut, Atharva Wader, and Abhiram Suradkar at the helm, "Scripstart" not only successfully laid the groundwork for technical proficiency but also established a foundation for a thriving, inclusive, and supportive community within Call of Code.

CODOTHON 2023

On March 1, 2023, the lively campus of PVPIT bore witness to the impressive execution of Codothon 2023, an inter-college coding event seamlessly coordinated by the dynamic team members of Call of Code. This captivating competition, comprising two rounds, featured the skills of 48 students from diverse engineering colleges in Pune.

The initial round, a challenging MCQ segment, saw enthusiastic participation from all 48 students. From this competitive group, 13 individuals emerged victorious, earning their spot in the final round.In the final round, a competitive coding segment, all the finalists were presented with coding problems to solve within a specified time limit. This added a thrilling dimension to the competition, the ultimate challenge consisted of a variety of problems, thoughtfully designed to cover different levels of difficulty. Notably, the coordinators, essential members of the Call of Code management team, took on the responsibility of solving these problems in advance, ensuring a demanding yet fair competition.



The triumphant winners of Codothon 2023 were: 1-Devom Jaiswal
2-Tanmay Wani
3-Abhishek Khairnar
The dedicated coordinators from the Call of Code who played a pivotal role in organizing the event were:
Yash Kathane
Prathamesh Shinde
Eshwar Varpe
Bhaven Rathod
Atharva Wader
Abhiram Suradkar
Sanika Chorey

Post-event, feedback was gathered from students representing various colleges, and their unanimous sentiment was one of praise. They lauded the flawless management and expressed satisfaction with the overall event experience. Codothon 2023 not only highlighted the technical skills of the participants but also emphasized the efficient event management capabilities of the Call of Code team, leaving a lasting impression on the coding landscape of PVPIT.

MEHAR BABA DRONE COMPETITION-11

In a collaborative effort with the Sky Soarers club, the Call of Code Club played a pivotal role in the Mehar Baba Drone Competition-II. The hardware aspect was effectively managed by Sky Soarers, while the software component was skillfully handled by the talented members of Call of Code. This joint endeavor resulted in securing a remarkable position among the first 30 applications selected from an overwhelming pool of 1,50,000 submissions nationwide.

For the second round of the competition, held at the Airforce station in Delhi, Call of Code members presented the implementation of their proposed solution. The competition, unveiled by Hon'ble Raksha Mantri Shri Rajnath Singh, focused on developing a swarm drone-based system to detect foreign objects on aircraft operating surfaces. Organized by the Indian Air Force, this distinctive contest aimed to nurture and uplift the burgeoning indigenous drone industry, seeking viable automated solutions for foreign object detection on a larger scale.

This achievement not only underscores the technical skills of Call of Code members but also highlights the club's active participation in cutting-edge competitions with real- world applications. Furthermore, it emphasizes the club's contribution to the advancement of drone technology and automation. Notably, a Call of Code members took charge of the entire computer vision department, overseeing the detection of foreign objects from the drone's camera and creating an application for controlling the drone. This multi-faceted involvement showcases the club's versatility and expertise in addressing complex challenges in the field.

GUEST LECTURE

On April 17, 2023, Call of Code orchestrated a thought-provoking guest lecture by Dr. D.S. Waghole, focusing on winning techniques for hackathons. Dr. Waghole's insights proved to be invaluable for participants eager to delve into the realm of hackathons.

During the lecture, Dr. Waghole shared his extensive experiences and offered practical tips on navigating hackathons successfully. He covered crucial aspects such as team formation, ideation, prototyping, and effective presentation skills. Emphasizing the importance of adaptability, creativity, and collaboration, Dr. Waghole highlighted these as indispensable traits for achieving success in hackathons.

What stood out most was Dr. Waghole's emphasis on the intrinsic learning experience of a hackathon, regardless of the outcome. He encouraged participants to embrace challenges as opportunities for personal and team growth, fostering a mindset that values the journey over the destination.

The event was a testament to Call of Code's commitment to providing enriching learning experiences for its members. The opportunity to learn from an esteemed expert like Dr. Waghole added significant value to the club's journey, reinforcing its mission to nurture and empower budding technologists.

Runner-Up At Jigyasa Coding Competition

On the 10th of February 2024, members of the "Call of Code" club participated in a prestigious competitive coding event at IMCC, Pune. This event attracted some of the brightest young coders from various institutions across the city, presenting an opportunity for participants to test their skills, solve complex problems, and demonstrate their coding prowess. Our club was well-represented, with a total of 13 students enthusiastically competing against other talented individuals.

The competition consisted of several rounds, each with unique challenges designed to evaluate participants' problem-solving abilities, coding efficiency, and creativity. Throughout the event, our club members displayed remarkable teamwork, determination, and a deep understanding of coding concepts. As the rounds progressed, four of our students emerged as finalists, advancing to the final stage of the competition. This remarkable achievement showcased the dedication and expertise of our club's members, highlighting their potential to excel in a competitive coding environment.

The final round was intense, with the best of the best competing for the top positions. Despite fierce competition, Vansh Waldeo, the vice-president of "Call of Code," distinguished himself with exceptional coding skills and strategic problem-solving. His efforts earned him the runner-up position among all the competing finalists, a significant accomplishment that brought pride to our club. Vansh's success serves as an inspiration to all our members, illustrating that hard work and dedication lead to success. This achievement underscores the strength of our club's community and motivates us to continue striving for excellence in future competitions and activities.

ALGORITHM ARENA 2024

On March 5, 2024, Call of Code organized "Algorithm Arena," a competitive coding event at Technothon 2k24. Coordinated by Sarvesh Shahane and Shivaji Raut, with faculty oversight from Mrs. Trupti Sonkusare, the event began at 2:00 PM across three labs: A-408, A-411, and A- 412. The competition attracted 28 participants, including six from other colleges, challenging them with algorithm-based problems on the Hackerrank platform.

The first round ran from 2:00 PM to 2:45 PM, focusing on arrays and strings. At the end of the 45-minute session, the top 10 performers advanced to the second round. The final round, originally planned for 45 minutes, was extended to 60 minutes due to technical issues. This extension provided participants with additional time to tackle the more complex set of six questions.

The second round began at 4:00 PM in lab A-412, where the finalists aimed to demonstrate their problem-solving skills and algorithmic prowess. At 5:00 PM, the leaderboard revealed Vignesh Bramhe as the winner and Swaraj Pawar as the runner-up, marking the end of an intense and competitive event. The results were announced promptly, celebrating the participants' achievements and showcasing the talent within the coding community at PVPIT.

RUNNER-UP AT CLASH OF CSS

On March 16, 2024, NIT Kurukshetra hosted "Clash of CSS," a nationwide hackathon that drew 70 teams from across India. The event was centered around CSS animations and web design, challenging participants to replicate complex animations and build animated websites based on a given theme. The competitive spirit was high, with teams showcasing their creativity and technical prowess throughout the event.

"Call of Code," our coding club, was represented by five teams at Clash of CSS. The hackathon required participants to think on their feet, applying their skills in CSS and web design to meet the specific requirements of the event. The teams worked tirelessly, creating visually stunning animations and websites that impressed the judges and fellow competitors alike.

One of our teams, "Style Sprinters," comprised of Sarvesh Shahane, Bhaven Rathod, and Sanica Chorey, made it to the final round. Their journey through the hackathon was a testament to their teamwork, creativity, and deep understanding of CSS animations. In the final round, they continued to excel, ultimately securing the second rank among all competing teams. This remarkable achievement not only brought pride to "Call of Code" but also highlighted the talent and dedication of its members. The success of "Style Sprinters" at Clash of CSS is a source of inspiration for the entire club, setting a high standard for future hackathons and coding competitions.

Department of Computer Engineering

Drone Club

Club Members

SHIVTEJ BHOR

SANIKA PATADE EXAM NO

ANKITA ASHTEKAR

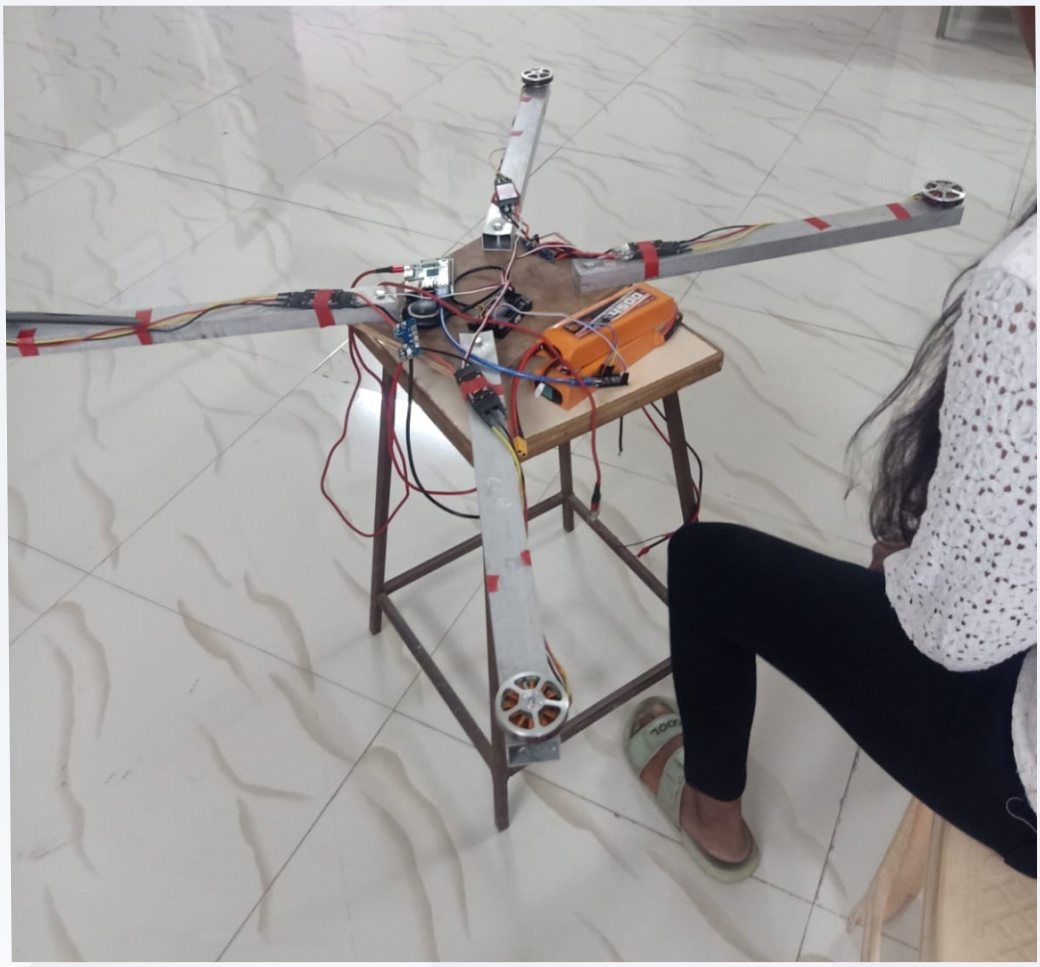
SHRADDHA GAIKWAD

Project Done Under Drone Club:

Design and Control of Drone Using Raspberry PI model and APM 2.8 Flight Controller

Unmanned Aerial Vehicle (UAV) is commonly known as Drone. It is extensively being used these years. Nowadays drones are used in various Military applications, Commercial Cargo Transport, and 3-D Mapping etc. For supporting the weight of the plane, and shock absorption functions, landing gear design is highly needed. Unmanned aerial vehicles (UAV) are the logical successors to modern aircraft and advancements in automated technology. The current generation of UAVs is focused on wartime capabilities and reconnaissance, leaving an existing market untapped by UAV technology: the commercial field. There are thousands of applications for UAV technology in the civilian market, from quick response applications and media outlets to communication technicians and horticulturalists. Drones represent a compelling subject of inquiry, prompting an exploration into their intricate mechanics, constituent elements, and their expansive array of applications that profoundly shape their future prospects. Integrating principles from electronics, mechanical engineering, and particularly aviation, drones epitomize a convergence of diverse disciplines. These aerial vehicles manifest in various forms, categorized by distinct configurations such as bicopters, tricopters, quadcopters, hexcopters, octocopters, and more.

Prototype



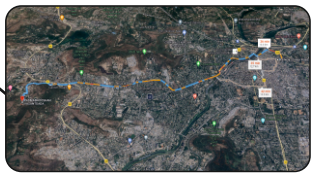
PVPIT
BAVDHAN, PUNE

Hinjawadi To PVPIT
16.5 km

kothrud depo To PVPIT
4.3 km

PVPIT
BAVDHAN, PUNE

International Airport to PVPIT
24 km



Railway Station Rd to PVPIT
18 km

For more details of Club's

Prof. Amit B. Maske
Robotics Club Co-ordinator
Contact:- +91 8208943499

Prof. Prachi D. Thakar
Programming Club Co-ordinator
Contact:- +91 8308811552

Prof. Nilesh R. Pawar
Robotics Club Co-ordinator
Contact:- +91 9637392020

www.pvpittssm.edu.in

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