



Government Polytechnic, Ahmedabad

Nr.Panjarapole, Ambawadi-380015 Ph:(079) 26301285

Email: principal@gpahmedabad.ac.in

Website: gpahmedabad.ac.in , gpah.cteguj.in



Event Name	Start Up Conclave
Type of Event	<input type="checkbox"/> State Govt Organized
Objective of Event	Stall Set up at Mahatma Mandir in Conclave
About event	With Vibrant Gujarat recognized as a trailblazing event for attracting investments to the state, a precursor event named ‘Startup Conclave 2023’ is scheduled for December 2023. This pre-Vibrant Gujarat gathering is meticulously crafted to unite startup investors and angel networks, facilitating a dynamic interchange of perspectives and prospects. The conclave is poised to spotlight India’s startup narrative, its emerging prodigies, and to offer investors insights to traverse the terrain for informed investment choices. This occasion will be instrumental for startups, providing them with invaluable information, market access, risk capital, and mentorship.
Venue	Mahatma Mandir Gandhinagar
From –to Date	6-10-DEC-2023
No. of Participants	150
Time	10.00 to 5.00 pm
Name of Committee (IIC/SSIP)	IIC/SSIP

Photographs



Government Polytechnic Ahmedabad Student Startup and Innovation Cell

PROOF OF CONCEPTS DEVELOPED UNDER SSIP 2.0

EC Department

Multi Power Control Board (Smart Switching Board)



Inventor: Krishna V. Davai
SSIP Fund: IN. 36550/

A GDA student has unveiled a ground-breaking Smart Switching Board, revolutionizing power distribution. The innovation allows control over 16 electrical appliances through comprehensive motion detection, fire sensors, and ultrasonic sensors. Moreover, users can conveniently monitor the real-time status of their appliances directly from their mobile devices. This innovation represents a significant step in harnessing technology, promoting seamless control, and unmatched convenience.

Indian Design Application No. 36550/2023-24, entitled "Smart switching control system"

EC Department

Smart Garbage Detection System



Inventors: Dhya, Parvati, Parth, Bahad, Sankarj Shah
SSIP Fund: IN. 36296/

The system utilizes a USB camera to analyze real-time images of trash, which is then processed and analyzed using MATLAB's image processing and machine learning capabilities. By employing image segmentation, the system distinguishes between garbage and non-garbage items, enabling it to accurately identify garbage regions within the image. This information can be further utilized for various applications, such as smart waste management systems, and automated environmental monitoring.

Mechanical Department

360 DEGREE ROTATING PEDESTAL FAN



Inventor: Siddhant Ranjan Kumar Hegde
SSIP Fund: IN. 35567/

Students of GP Ahmedabad made a 360-degree rotating fan whose direction is as important as speed and the Pedestal fan is the master of both. Designed to enhance the ambiance of your space, the 360° rotation ensures that breeze fills everywhere and 30 watts power consumption makes it energy efficient. The students were funded by SSIP policy.

Mechanical Department

360 DEGREE ROTATING FIRE PROTECTION SYSTEM



Inventor: Bhagat Prakash
SSIP Fund: IN. 21900/

Large factories, warehouses, and industrial production facilities always run the risk of fire. Keeping that in mind, students of GP Ahmedabad made a prototype working model of a 360-degree rotating fire protection system to cope with the hazard effectively. The students were funded by SSIP policy.

Electrical Department

Pathdarshak The Smart Stick



Inventor: Vashal Nishay Shah
SSIP Fund: IN. 24500/

Our team has developed a smart stick designed specifically for individuals who are visually impaired. In the market, there are various types of sticks for the blind, but many are only simple wooden sticks. Our team has innovatively designed a stick that addresses these concerns effectively. We are proud to announce that our stick has been successfully patented and will soon be commercialized, offering a new and improved mobility solution for the visually impaired.

Indian Design Application No. 24500/2023-24, entitled "Path darshak walking stick for blind"

Photographs

START-UPS UNDER GUIDANCE OF

PROJECT AND INNOVATION LAB

STARTUP CONCLAVE 2023 | ibrant GUJARAT 2024 | વલસુ મુલ વિકાસન

A M B H GARDENING SOLUTION

Project under the guidance of Prof. URVISH SONI & Prof. ZANKHANA MEHTA

MAINTENANCE SERVICES
We keep outdoor spaces thriving with expert care, including mowing, pruning, irrigation, and seasonal upkeep.

TERRACE GARDEN
Transform rooftops into vibrant green spaces with our specialized design, installation, and maintenance services.

CONSULTATION
Tailored advice on landscape design, plant choices, and sustainable practices to ensure personalized outdoor perfection.

PLANT BOT

Features:

- Automated timers for precise watering schedules.
- Drip or sprinkler systems deliver water efficiently.
- Remote control access via smartphone or computer.

Advantages:

- Water conservation and efficient usage.
- Precision watering for healthier plants.
- Time-saving and reduced manual labor.
- Improved plant vitality and root health.

Organic Manure

What We Offer:

- Our manure provides essential Nitrogen, Phosphorus & Potassium and enhances soil structure, and microbial activity.

Benefits:

- Balanced nutrients promote healthy plant growth.
- Improves soil structure, water retention, and aeration.
- Supports sustainable agriculture by recycling organic waste.

A M B H HEALPING THE PLANTE

Project under the guidance of Prof. URVISH SONI & Prof. ZANKHANA MEHTA

LOW COST & UNIQUE RAW MATERIAL FOR BIOMASS BRIQUETTES (WHITE COAL)

GCV Value ~3800 kcal/kg | ASH CONTENT ~13% m/m | MOISTURE ~UPTO 8%

Eco-friendly and have high burning efficiency than coal. Coal spread smoke when it burns but briquettes are completely eco-friendly and does not make pollution when it burns so it is also known as white coal.

CONTACT US

MURTAZA HATHI: +91 9104894578

PROJECT AND INNOVATION LAB INSTRUMENTATION AND CONTROL ENGINEERING DEPT. GOVERNMENT POLYTECHNIC AHMEDABAD



START-UPS UNDER GUIDANCE OF

PROJECT AND INNOVATION LAB



TINKERING CHAMP

POWERED BY SURYATANAYA

START-UP MENTORS: PROF. ZANKHANA D MEHTA, PROF. URVISH P. SONI
START-UP CONNECT: DHRUV A PANCHAL: +91 97270 56102

BRAND OBJECTIVE

TINKERING CHAMP IS A ONE-STOP EDUCATION SOLUTION THAT BLENDS THEORY WITH EXPERIENTIAL LEARNING. THIS HELPING DEVELOP CURIOSITY, CREATIVITY, INNOVATION, AND PROBLEM-SOLVING SKILLS - THE MUST-HAVES IN THE 21ST CENTURY. IT SOLVES THE BIGGEST PROBLEM OF LACKING KNOWLEDGE OF TECHNICAL (PRACTICAL) FROM CHILDREN OF AGE GROUPS 12-18. TINKERING CHAMP'S PRIMARY OBJECTIVE IS TO HELP STUDENTS BECOME INDUSTRY EXPERTS IN THE FIELD OF TECHNOLOGY. THROUGH OUR INDUSTRY-VETTED COURSES, WE OFFER TRAINING PROGRAMS THAT BRING BETTER CAREER OPPORTUNITIES WITH GUIDANCE FOR STUDENTS. THE COURSES ARE DESIGNED BY ACADEMIC AND INDUSTRY EXPERTS STRIKING THE RIGHT BALANCE OF THEORY AND HANDS-ON PRACTICAL TRAINING WITH LIVE PROJECTS.

OUR COMPANY WELCOMES TECHNO-FRIENDLY ENTHUSIAST STUDENTS WHO ASPIRE TO BECOME A PROBLEM SOLVERS BY GROWING THEIR NEW SKILLS MINDSET. WE ARE WORKING FOR THE NATION TO MAKE A BETTER FUTURE FOR INDIA BY PROVIDING TECHNICAL LEARNING SUPPORT TO EVERY SCHOOL.

OUR SERVICES

- ROBOTICS CLUB**
Explore Tinkering Champ's Robotics Club - where students aged 12-18 learn hands-on robotics, gain real-world skills, and unleash creativity. Join us in shaping a future where innovation thrives!
- MAKERS SPACE**
Tinkering Champ's "Makers Space": A creative hub for students (12-18) to bridge theory and hands-on application, fostering innovation and a problem-solving mindset. It signifies Tinkering Champ's commitment to shaping future innovators.
- TECHNICAL PICNIC**
Technical Picnic - where fun meets learning! Tailored for 12-18-year-olds, it's an exciting blend of hands-on experiences and interactive workshops, sparking curiosity and a passion for technology!
- SKILL BASED COURSES (REGULAR/ VACATION BATCH)**
Tinkering Champ launches skill-based courses for students - regular and vacation batches. Practical training, industry expertise, and a focus on creativity and problem-solving. Empowering youth for a future in technology and entrepreneurship.
- ROBOTICS / ELECTRONIC KIT**
Empowers youth (12-18) with innovative robotics and electronic kits, blending theory with hands-on learning for a tech-savvy future in India. Join us for a journey into creativity and problem-solving skills.



TINKERING_CHAMP



BRICK MAKING MACHINE

START-UP MENTORS: PROF. ZANKHANA D MEHTA, PROF. URVISH P. SONI
START-UP CONNECT: DHRUV A PANCHAL: +91 97270 56102

POWERED BY SURYATANAYA

BRAND OBJECTIVE

- OUR MAIN OBJECTIVE IS TO REDUCE THE ENVIRONMENTAL POLLUTION WHICH IS CAUSED DUE TO PRODUCTION OF THE FIRE BRICKS WHICH RESULTS IN THE CARBON EMISSION.
- OUR SECOND MAIN OBJECTIVE IS TO REDUCE THE HEAT TRANSFER FROM THE SUN WHICH IN RESULT REDUCES THE INSIDE TEMPERATURE OF THE INFRASTRUCTURE MADE WITH OUR BRICKS BY A CERTAIN TEMPERATURE.
- **THIS BRICKS ARE CALLED COMPRESSED STABILIZED EARTH BLOCKS (CSEB)**
- HYDRAULIC SYSTEM WHICH IS IN THIS PROJECT INCLUDE THE ROLE OF INSTRUMENTATION.
- THE MATERIALS USED IN THE MAKING OF THIS BRICKS ARE ALL NATURAL AND CHEMICAL FREE MATERIALS (ECO-FRIENDLY).

THE MARKET POTENTIAL OF INNOVATION

- OUR BRICKS OFFER ECO-FRIENDLY SOLUTIONS BY REDUCING ENVIRONMENTAL POLLUTION AND HEAT TRANSFER. THEY PROVIDE FINANCIAL BENEFITS BY ELIMINATING ADDITIONAL COSTS LIKE CEMENT PLASTER AND PAINTING. MADE FROM NATURAL RAW MATERIALS, OUR BRICKS ARE STRONGER, EMISSION-FREE, AND IDEAL FOR HIGH-SECURITY AREAS.
- OUR PRODUCT STANDS OUT WITH MARKET POTENTIAL DUE TO ITS ADVANTAGES OVER RED MUD BRICKS: ZERO CARBON EMISSION, NATURAL RAW MATERIALS, HIGH COMPRESSIVE STRENGTH, WATER RESISTANCE, AND COST EFFICIENCY FOR CUSTOMERS.

FINAL COMPOSITION BRICK MEASUREMENT OF BRICK AREA DIFFERENT COMPOSITION BRICKS

“CSEB are generally cheaper than fired bricks. No plaster is needed in most the cases. Water resistive.”

“Our organic bricks will give a temperature difference of around 15 C°”

“CSEB are generally cheaper than fired bricks. No plaster is needed in most the cases. Water resistive.”

“Compare to the fired bricks, our organic bricks are 2 times more stronger.”
RED BRICK: 35 KG/CM²
OUR BRICK: 65 KG/CM²”

OUR BRICKS UNDER TESTING IN APPLIED MECHANICS DEPT. GPA

Photographs



SSIP

Government Polytechnic Ahmedabad

Student Startup and Innovation Cell

Government Polytechnic - Ahmedabad is one of the Pioneer Institutes in the Diploma Technical Education side since 1954. Institute is running various 14 different diploma courses under CTE and affiliated with Gujarat Technological University. Institute is located in the heart of the city & first choice among student for their admission.

Courses with the Intake

Course	Intake	NBA Status
■ Automation and Robotics	60	-
■ Automobile Engineering	183	Accredited
■ Biomedical Engineering	60	-
■ Civil Engineering	123	Accredited
■ Computer Engineering	183	Accredited
■ Electrical Engineering	123	-
■ Electronics & Communication Engineering	152	Accredited
■ Information & Communication Technology	30	-
■ Information Technology	122	-
■ Instrumentation & Control Engineering	123	Accredited
■ Mechanical Engineering	123	Accredited
■ Mechanical Engineering (CAD/CAM)	120	-
■ Plastic Engineering (Sandwich Pattern)	63	-
■ Architecture	30	-

Scan For More
Information



Standee

Coordinator Name and Sign: Dr Mitchell Prajapati