



ACIC MIET MEERUT FOUNDATION

MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY,
MEERUT
UTTAR PRADESH

<http://acicmeerut.org/>

CONTENT OF THE PRESENTATION:

- ❖ About ACIC MIET Meerut Foundation/ Vision and Mission of ACIC MIET Meerut Foundation.
- ❖ Composition: Board of Director/ ACIC MIET Meerut Foundation Team.
- ❖ Road Map.
- ❖ Facility Tour.
- ❖ Activities/ Events Conducted.
- ❖ Credentials/ Achievements/ IPR.
- ❖ Awards and Recognitions.
- ❖ Media Coverage.

About ACIC MIET MEERUT FOUNDATION

- ❖ ACIC MIET Meerut Foundation is a Section 8 company has been established under Niti-Aayog' s Atal Innovation Mission (ACIC Scheme) to develop the innovation ecosystem in the state of U.P., initially focusing on the Western U.P.

VISION

- ❖ “To harness the spirit of innovation and entrepreneurship in West Uttar Pradesh By building up a robust innovation and incubation ecosystem through enablement of Infrastructure; capacity building amongst local communities in innovation, design and Entrepreneurship and; development of interventions/offerings/solutions addressing Issues/problems at regional/global levels.”

MISSION

- ❖ “To become a prominent knowledge based self-sufficient center for innovation and incubation for the regional communities addressing

OBJECTIVES

- ❖ To implement Design thinking process to spur creativity.
- ❖ To implement Community oriented approach enabling innovative solutions through Advanced tinkering.
- ❖ To build Capacity of potential/ emerging innovators and entrepreneurs through community engagement, training and mentorship in evolving technologies and designing their innovations from ideation/ concept to impactful novel and unique solutions.
- ❖ To assist the potential startups in creating a sustainable, scalable & profitable business model.
- ❖ To create a strong network of mentors, coaches and community development experts who can provide sector-specific guidance to innovators and budding entrepreneurs.
- ❖ To build Partnerships with local industries/institutions/funding agencies/existing local incubators (AICs, ATIs, etc.) in problem solving through innovative offerings in terms of products, services and processes.
- ❖ To enable accessibility to physical infrastructure (laboratories, prototyping facilities, test beds, workshops, office space, etc.) and value-added support

COMPOSITION: BOARD OF DIRECTOR



Name: Mr. Vishnu Saran
Designation in HI: Director
%age Shareholding: 50 %



Name: Mr. Puneet Agarwal
Designation in HI: Director
%age Shareholding: 50 %

ACIC MIET MEERUT FOUNDATION TEAM



Mr. Prashant Kumar Gupta
Centre In Charge
DOJ: 12 Feb 2024



Mr. Vikrant Gaur
Manager Outreach
DOJ: 03 Oct 2023



Dr. Swapan Suman
Outreach- In charge
DOJ: 01 Aug 2020



Mr. Pulak Gupta
Young Professional
DOJ: 5 Sep 2022

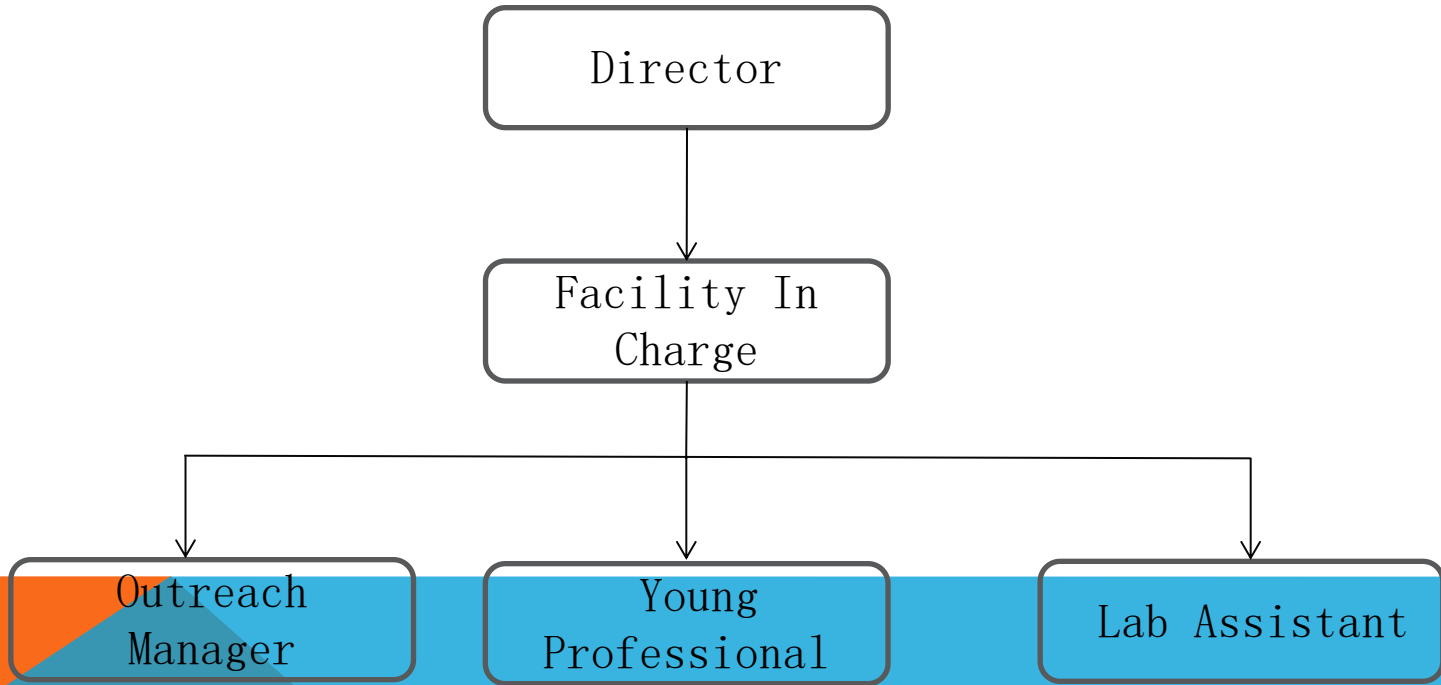


Mr. Pawan Kumar Dewan
Lab Assistant
DOJ: 6 Sep 2022



Mr. Ashish
Lab Assistant
DOJ: 06 Nov 2023

ACIC TEAM HIERARCHY



Road Map



Facility Tour



CEO Room and Facilities Manager

Discussion Space for Innovators

Maker's Lab



Conference Room equipped with a smart interactive display and Wi-Fi,



Maker's Space for Innovators to conceptualize and develop pre-prototypes/ prototypes with focus is towards IoT and sensors.

Prototype Lab



3D Printers



Fiber Laser PCB Milling Machine for the production of high-quality PCBs with fine features



Screen printing setups

Cont...

Fabrication Lab



CNC PCB drilling and milling machines
Automate the fabrication of printed circuit boards, ensuring precision in drilling holes and milling traces. Essential for electronics manufacturing, they enhance efficiency and accuracy. This machine is also used for milling of metal and non-metals.



CO2 Laser Cutting & Engraving Machine:
Employ high-power lasers to cut and engrave materials with precision. Widely used in industries for fabricating intricate designs in MDF, wood, acrylic, and other materials.



Universal Testing Machine :

Determines material properties like tensile strength and elongation by subjecting samples to controlled tension, compression, or bending. Essential in quality control and material research across industries.



Jigsaw machine: is a versatile power tool used for precision cutting in woodworking and metalworking. Its reciprocating blade allows for intricate curves, straight cuts, and beveled edges. Ideal for crafting, DIY projects, and professional tasks, the jigsaw is essential for creating detailed shapes and profiles with ease and precision



Izod Impact Strength Test Machine : measures the impact resistance of materials, providing insights into their toughness and durability, crucial for material selection in engineering and manufacturing



Pipe Bending Machine: crucial in creating precision bends in pipes for various applications, including plumbing, construction, and automotive industries. They enhance efficiency, reduce manual labor, and ensure accuracy in bending.

Reception and Display Spaces



Sector Specific Laboratories



Smart Manufacturing Lab

- ❖ Modular production system with 3 pneumatic control stations for designing, assembling innovative manufacturing solutions and optimizing manufacturing processes through industrial automation, robotics, and mechanical engineering applications.
- ❖ Facilitates learning in workflow optimization, resource allocation, and production scalability, empowering innovators to develop efficient and adaptable manufacturing solutions.
- ❖ Industrial Internet of Things (IIoT) : Integration of sensors, actuators, and data analytics in industrial processes for real-time monitoring, predictive maintenance, and optimization of manufacturing systems.

Electric Vehicle Lab



Electric Vehicle Lab

- ❖ Research hub for electric vehicle (EV) technology, facilitating experimentation, analysis, and development of components and systems
- ❖ Toyota's Training Centre for Hybrid Vehicles for providing comprehensive instruction on maintaining and repairing hybrid vehicles.

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SAT Lab



SAT Lab

- ❖ Facility furnished with electronic measuring tools and prototype equipment including DSOs, multi-meters, and soldering stations. High-speed workstation is exclusively dedicated to fostering innovation in space-related endeavors, enabling researchers to develop and test pioneering technologies vital for space exploration and scientific advancement.

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Outdoor Space for Innovation Activities and Displays



❖ Innovation Cafe at ACIC MIET Meerut Foundation serves as a platform to showcase prototypes developed by innovators and startups. It provides a dynamic environment for demonstrations, feedback sessions, and networking opportunities, fostering innovation and entrepreneurship within the community.



❖ Innovation Park at ACIC MIET Meerut Foundation serves as a hub for community engagement, featuring exhibitions by startups and Self-Help Groups (SHGs). Additionally, it hosts large gatherings and events, fostering collaboration, networking, and showcasing innovative solutions that benefit the local community and beyond.

Activities

- ❖ Outreach Activities.
- ❖ Ideathons/ Hackathon.
- ❖ Design Thinking Workshops.
- ❖ Boot Camp.
- ❖ Workshops.
- ❖ Lecture Series.

Partners and MOUs

- ❖ Academic Partners MOUs: 14
- ❖ Community Innovation Fellowships: 04
- ❖ Grassroot Innovators: 10
- ❖ Student Innovators: 12
- ❖ Women' s' Self Help Groups: 15
- ❖ Startups: 17

NOTABLE STARTUPS/INNOVATOR SUCCESS STORIES

Ram Chauhan

during the COVID pandemic, innovator Ganga Ram Chouhan developed a **pedal-driven wheat flour machine** at ACIC MIET Meerut Foundation. As village flour mills closed, leaving people unable to mill wheat for daily needs, Chouhan's invention revolutionized access to flour. Not only did it solve a pressing problem, but it also promoted physical activity, contributing to better health. Manufacturing the machine, Chouhan turned adversity into opportunity, creating a successful business while addressing a community need. His innovative solution not only improved lives but also exemplified the power of ingenuity in



NOTABLE STARTUPS/INNOVATOR SUCCESS STORIES

2. Vivek Kumar Patel

Innovator Vivek Kumar Patel identified the escalating problem of stray animals harming humans and causing accidents due to lack of proper regulations. He devised a groundbreaking solution by developing a geared electricity generator powered by these animals in government cow sheds. Each animal now generates 7 units per hour, supplying electricity to the grid. The revenue from electricity transformed the cow shed into a sustainable model, providing proper care and food to all stray animals. Patel's innovative approach not only mitigated accidents but also created a harmonious environment, demonstrating the power of innovation in solving societal challenges while



GLIMPSE OF WORK DONE IN LOCAL & EWS COMMUNITY

- ❖ Self Help Groups (SHGs) have played an important role in empowering rural women directly and indirectly because women empowerment leads to the upliftment of the family and society.
- ❖ Despite all the good efforts of the Self Help Groups, marketing The problem continues to be a major problem faced by many Self Help Groups.
- ❖ Keeping this in mind ACIC MIET Meerut Foundation moving came forward with marketing strategy for SHGs in Meerut district of Uttar Pradesh in collaboration with NRLM Meerut.



Notable Startups/Innovator success stories

3. Satyendra Nagar and Seema

Innovator Satyendra Nagar identified the problem of disabled person and their employment. As well as problem of waste of cow (cow dung and urine). He transformed this problem into a success. He started making valuable **products from cow dung and urine, Like lamps, idols, incense sticks, etc.** They are also employing many disabled along with them. They have moved forward with the dream of making themselves and those like them self-reliant. He also started a company in the name of Rajbala Prakratik Products Private Limited .



इनसे सीखिए...क्या कमाल कर रहे



सतेंद्र नागर, सीमा बंसल 90 फीसदी तक दिव्यांग हैं। इनके काम सामान्य व्यक्ति से बेहतर हैं। दिव्यांगों को आत्मनिर्भर बनाने के लिए सतेंद्र और सीमा ने इसी साल राजबाला प्राकृतिक प्रोडक्ट्स प्रा.लि. की शुरुआत की। कंपनी गाय के गोबर से धूपबत्ती, दीया व अन्य उत्पाद बनाती है। कंपनी में इस वकत 8 दिव्यांग काम करते हैं। कंपनी का लाभ केवल दिव्यांगों पर ही खर्च होता है। प्रदेश सरकार ने इस स्टार्टअप को 7.5 लाख रुपये बतौर ग्रांट दिए हैं।



Awards and Recognitions

CIFs (Community Innovation Fellow)

Our Community Innovation Fellow, Ms. Vandana Yadav, is dedicated to addressing soil fertility deterioration, regardless of the current fertilizer application practices adopted by farmers. Graduating in 2023, Vandana's innovative approach aims to evaluate soil fertility and develop sustainable solutions to combat degradation, contributing to agricultural sustainability and environmental conservation.



Grassroots Innovators

Our innovator, Mr. Vivek Patel, secured the first runner-up prize at the IIC Regional Meet, hosted at AKTU Lucknow on September 29, 2022. His innovative project captivated the judges and audience, showcasing his creativity and dedication to solving real-world challenges. Mr. Patel's success underscores his exceptional talent and commitment to innovation. This achievement not only brings honor to him but also highlights the ACIC MIET Meerut Foundation's commitment to fostering and supporting innovative endeavors. It inspires aspiring innovators within our community to pursue their ideas with passion and perseverance.



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- ❖ Student innovator Prakhar Austin Mohan, under the guidance of Deepak Mittal, led a triumphant team in winning the **Smart India Hackathons 2023 (SIH-23)**, the world's largest Hackathons. Their outstanding achievement highlights their expertise and innovative prowess in solving complex challenges through technology.



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Patents

| S. No. | Patent No. | Title of Innovation | Innovator | Type of IP | Status |
|--------|--------------|---|---------------|-----------------|---|
| 1 | 370548-001 | Mohenjo-Daro Diya | Ashok Manwani | Design Patent | Examination Report has been Generated ,Case is Waiting for Examination Report Reply (FER) |
| 2 | 369644-001 | Flying Wheel | Vivek Patel | Design Patent | Examination Report has been Generated ,Case is Waiting for Examination Report Reply (FER) |
| 3 | 375469-001 | Insole with Sensors | Sumit Raghav | Design Patent | Examination Report has been Generated ,Case is Waiting for Examination Report Reply (FER) |
| 4 | 377639-001 | Radiative Convective Portable Room Heater | Deepak Mittal | Design Patent | Examination Report has been Generated ,Case is Waiting for Examination Report Reply (FER) |
| 5 | 377640-001 | Interlocking box Assembly. | Deepak Mittal | Design Patent | Registered |
| 6 | 375470-001 | Solar Driven Water Machine | Rajesh Kumar | Design Patent | Registered |
| 7 | 202311044367 | Radiative Convective Portable Smart Heater And Method Thereof | Deepak Mittal | Utility Patents | Published |
| 8 | 202311069992 | A Cycle Operated Food grain Mill | Ram Milan | Utility Patents | Published |

गुम नहीं हो पाएंगे फुंगशू वांगडू, 'जुगाड़' को मिलेगी पहचान

अपलब्धि



नीति अयोग अटल इनोवेशन के मिशन निदेशक डॉ. विनय वैष्णव के साथ बच्चे।

मेरठ, प्रमुख संवाददाता। अमित खन को चॉचंग फिल्म 'श्री इंडियन' में कुछ नया करने वाली फुंगशू वांगडू अब पंच-पॉप शहर-शहर लल्लाई जायें। फुंगशू वांगडू के नव-चारी को प्लेटफॉर्म देते हुए उन्हें मुंबई के लिए मेरठ में प्रवेश का चला अटल कम्युनिटी इनोवेशन सेंटर शुरू हो गया है। एमआइएन में बना एक केंद्र उत्तर प्रदेश के किसी उच्च शिक्षा संस्थान में पलता है। नीति अयोग में अटल इनोवेशन मिशन के मिशन निदेशक डॉ. विनय वैष्णव ने इस केंद्र का शुभारंभ किया। यह केंद्र, समग्र डॉ. का समर्थन

लोकमों को कुछ नया करने वाले युवाओं को नई दिशा देगा। जुगाड़ में निकलना कुछ नया : डॉ. विनय वैष्णव के अनुसार, देशभर में ऐसे अनेक इनोवेशन हैं, जो स्थानीय स्तर पर किसी समस्या के समाधान को देना चाहिए हैं। जुगाड़ सही ढंग

इस पर विचारित मत हो सकते हैं, लेकिन इनमें वैचार करने के पीछे को सोच रचनात्मक है। यह केंद्र ऐसे ही जुगाड़ तैयार करने वाले इनोवेशन को मंच देकर उन्हें बेहतर बनाएगा। श्रेष्ठि में हो रहे सबसे ज्यादा नवाचार : डॉ. विनय वैष्णव के

नीति अयोग के मिशन निदेशक ने देखा आधारशिला

मेरठ (सीए) अयोग अटल इनोवेशन के मिशन निदेशक डॉ. विनय वैष्णव ने अध्वरहित लेख का दौरा किया। इस दौरान उन्होंने कला को टेक्नोलॉजी के बारे में नई-नई जानकारी दी। साथ ही अद्यतन लेख के छात्रों द्वारा बनाए गए कंप्यूटर प्रोग्राम की सराहना की। यहां अध्वरहित शर्मा से प्रश्न, वीडियो, डॉक्यूमेंट्री, क्लिप ट्रेन के बारे में जाना। साथ ही उनके दैनिक जीवन में होने वाले अनुभवों के बारे में छात्रों से बातचीत। अंत में उन्होंने तैलियाओं से बात भी देखा। कार्यक्रम निदेशक अटल इनोवेशन मिशन महेश्वरी प्रियंका, प्रमिता शर्मा, मुख्य दिग्गज अधिकारी शशांक वैश्या ने संबोधित करें।

अनुसार, अटल कम्युनिटी इनोवेशन सेंटर पर प्रबोधि कवचार कृषि क्षेत्र में निर्यात है। प्रबोधि परेशना एवं छोटे शहरी की प्रतिभा अपने आसपास समस्याओं के समाधान में जुटी रहती है। श्री अजय है कि कृषि में नवाचार को अधिक है। डॉ. वैष्णव के अनुसार,

देशभर में कुल 50 अटल कम्युनिटी इनोवेशन सेंटर बनने हैं, जिसमें से 14 तैयार हो चुके हैं। एमआइएन में संरक्षण को सुधार में हुआ केंद्र 14 खं है। उन्होंने कहा कि देश में पहले चरण में दस हजार अटल डिवाइस तैयार कराने का लक्ष्य पुर हो चुका है।

रोटो इंडक्शन पर पकाइये रोट्टी

जागरण विशेष

लाकड़ान में बैस को समस्या घर एमटेक के छात्र ने किया इजाज

शिविका राय ● जीएन



रोट्टी-इंडक्शन तब के साथ राईश ●

कोरोना काल में तमाम लोगों के सामने खानपान की चुनौती रही। इस तरह नये समस्याओं ने युवाओं को कुछ नया करने के लिए प्रेरित भी किया। लाकड़ान के टीचर राईश वैस को किलान को देखते हुए एमटेक के छात्र ने इंडक्शन स्टेशन पर प्रयोग होने वाला तथा तैयार किया है। इस पर आयाती और सुविधाजनक टॉप से रोट्टी बनाने जा सकती है। उन्होंने इसका नाम रोट्टी इंडक्शन रखी है। इसकी तकनीक और डिजाइन का पेटेंट हो चुका है। जाने वाले समय में यह बाजार में उपलब्ध होगा।

चूल्ही को गांग बढ़ा है। इंडक्शन पर हर तरह का खाना पकाया जा सकता है, लेकिन रोट्टी बनाने में दिक्कत रहती है। इसके लिए अलग से रोट्टी मेकर रखना पड़ता है, जिसमें रोट्टी बनाने का तरीका अलग होता है।

इन सारी समस्याओं को देखते हुए राजेश कुमार ने इंडक्शन पर इस्तेमाल होने वाला तथा तैयार किया है। मेरठ से बना वह तथा जो प्लेट का है। इसमें परंपरागत तरीके

एमएसएमई से संपर्क कर रहे राजेश कुमार

राजेश कुमार ने अभी एमआइएनटी से एमटेक में पंजीयित किया है। सार्वजनिक में ही पेटेंटअन लेब में रिनवा कर रहे हैं। रोट्टी इंडक्शन को स्टार्टअप के तौर पर अपने नदमों के लिए वह मेरठ के कुछ एमएसएमई से भी संपर्क जांच रहे हैं। राईश का कहना है कि रोट्टी-इंडक्शन इजाज कराने में 500 लाख खर्च जाके है। उनका इससे बड़े पैमाने पर बनाया जाए तो जीमात और भी कम हो जायगी।

ये रोट्टी को बलने के बाद रखते हैं। जो प्लेट के बीच रोट्टी इंडक्शन को बीच से पूरी तरह से फूलकर निकलती है। इंडक्शन पर इस तब से रोट्टी बनाने में समय भी कम लगता है। राजेश कुमार के मुताबिक, इस तब पर रोट्टी के अलावा सीडबच, ब्रिडिकेट, आमालेट, पिज्जा आदि भी बनाया जा सकता है।

THANK YOU

