



MTI-HUB NEWSLETTER

June, 2024

MANIPUR TECHNICAL UNIVERSITY (MTU) FIELD VISIT AND WORKSHOP AT MANIPUR TECHNOLOGY INNOVATION HUB (MTI-HUB) 7 JUNE 2024

Officials and students from **Manipur Technical University (MTU)** visited the **Manipur Technology Innovation Hub (MTI-HUB)** for a field visit and participated in a **Workshop on prototype/ process design and development**.

This event aimed to enhance the students' understanding of innovation and enterprise ecosystems, as well as the processes involved in product development from ideation to execution.



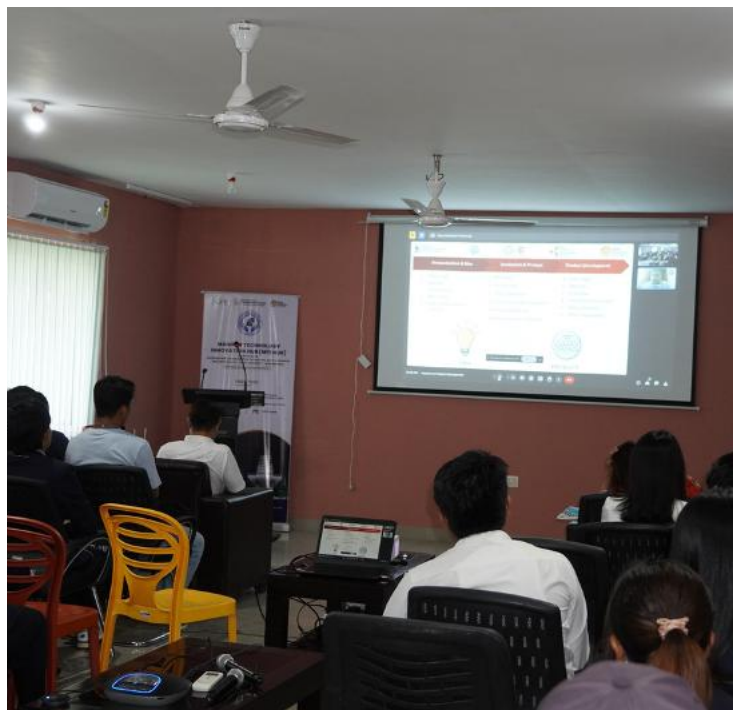
Dr. Rajiv Kangabam,
Lead, Manipur Technology
Innovation Hub

Dr. Rajiv Kangabam, Lead, Manipur Technology Innovation Hub (MTI-HUB) emphasized the crucial role that MTI-HUB plays as an incubator, fostering innovation and supporting the entrepreneurial ecosystem in Manipur.

He highlighted various programs, resources, and support systems available at MTI-HUB that aid in nurturing innovative ideas and transforming them into viable enterprises

Mr. Malay Mohapatra, Program Manager, KIIT TBI and MTI-HUB (joined online) discussed the stages involved in taking an idea from conception to a market-ready product.

His presentation covered critical aspects of product development including ideation, prototyping, market analysis, and scaling. He also provided insights into successful case studies and practical advice for aspiring innovators.



INTERACTIVE & QUIZ SESSION



An engaging online quiz competition was conducted after the presentations, testing the participants' knowledge and understanding of the topics discussed. The winners were given small tokens of appreciation for their performance in the quiz.

WINNERS:

1st Place : Lanmani Chungkham

2nd Place : Lucky Thokchom

3rd Place : Sidarth Haobam

PRODUCT DISPLAY FROM STARTUPS



On behalf of Manipur Technical University **Dr. Moirangthem Roshini**, Assistant Professor, Manipur Technical University highlighted that, the field visit and workshop at Manipur Technology Innovation Hub were highly educational and provided invaluable insights into the innovation and product development processes.



She appreciated the presentations by Dr. Rajiv Kangabam and Mr. Malay Mohapatra, along with the interactive quiz, effectively engaged the students and faculty from MTU. The event not only enhanced their knowledge but also inspired them to explore and contribute to the innovation ecosystem in Manipur.



Longjam Robinson Singh, Business Development Manager at MTI-HUB, concluded the event with a vote of thanks, expressing gratitude to all participants, speakers, and organizers for their contributions to a successful and informative session.



WORKSHOP ON DIGITAL MARKETING FOR STARTUPS & MSME'S 12 JUNE, 2024

In today's digital age, effective marketing is crucial for the success of startups and MSMEs. To equip these enterprises with essential digital marketing skills, MTI-Hub organized a one-day workshop on **Digital Marketing for Startups and Micro, Small, and Medium Enterprises (MSMEs)** on 12th June, 2024 at MTI-HUB Office, Imphal.

The workshop aimed to equip entrepreneurs and small business owners with the knowledge and tools necessary to leverage digital marketing for business growth.

Dr. Rajiv Kangabam, Lead at MTI Hub, addressed the participants about the role of MTI HUB in supporting startups.

He highlighted the financial support, mentoring, prototyping facilities, etc. available at MTI HUB, emphasizing its role as an incubation center for fostering startup growth and innovation.



The workshop featured Mr. Russell Longjam, Marketing & Growth Leader at Globiz, as the key speaker.

His expertise ensured an engaging and interactive session, addressing the specific needs and challenges of the participants. This report highlights the key topics covered, the interactive nature of the workshop, and participant feedback.

TOPIC COVERED

- **FUNDAMENTALS OF DIGITAL MARKETING**
- **TOOLS & METRICS OF DIGITAL MARKETING**
 - **DIGITAL MARKETING CAMPAIGN**
 - **KEYWORD RESEARCH AND ANALYSIS**
- **BRANDING AND PROMOTION THROUGH DIGITAL MARKETING**

Mr. Russell Longjam, Marketing & Growth Leader at Globiz, addressed the participants that Digital marketing is no longer just an option; it's a necessity for startups. It provides a cost-effective way to reach a global audience, build your brand, and drive sales. By leveraging SEO, content marketing, social media, email marketing, and PPC, you can build a strong online presence and drive growth for your startup.



Longjam Robinson Singh, Business Development Manager at MTI-HUB, concluded the event with a vote of thanks, expressing gratitude to all participants, speakers, and organizers for their contributions to a successful and informative session.



MTI-HUB EMPOWERS FARMERS PRODUCER ORGANIZATIONS WITH COMPREHENSIVE PROGRAM 20 JUNE, 2024

MTI-HUB in collaboration with Manipur Organic Mission Agency (MOMA), Dept. of Horticulture & Soil Conservation, Government of Manipur organized a one day comprehensive program to enlighten Farmer Producer Organizations (FPOs) about the various facilities and support mechanisms available through the Manipur Technology Innovation Hub.

The event aimed to provide an in-depth understanding of the resources and assistance available to enhance the productivity and efficiency of FPOs.

Dr. Rajiv Kangabam, Lead at MTI Hub, addressed the participants about :

- Overview of the MTI-Hub mission and vision.
- MTI-Hub role in supporting agricultural innovation and FPOs.
- Various facilities available, including technological tools, research & infrastructure.
- Information on financial support, grants, and subsidies accessible through MTI-Hub.



The program was graced by Shri Donald Soubam, Project, Director, MOMA, Dept. of Horticulture & Soil Conservation, Government of Manipur, along with Shri Khongbantabam Nimaichand Singh, Project officer, MOVCDNER, Agriculture.

The event not only provided valuable information but also fostered a spirit of collaboration and innovation among the participating FPOs. It is anticipated that the knowledge and insights gained from this program will significantly benefit the agricultural sector in Manipur.



5-DAY BOOT CAMP TRAINING PROGRAMME ON "CONSTRUCTION OF AUTONOMOUS MULTIROTOR UAV FOR OBSTACLE AVOIDANCE" 19-23 JUNE, 2024

To address the growing demand for skilled professionals in drone technology, the Manipur Technology Innovation Hub (MTI-HUB) in collaboration with NIELIT Imphal, organized a 5-day boot camp on "**Construction of Autonomous Multirotor UAV for Obstacle Avoidance**" from **19th to 23rd June, 2024** held at the Manipur Technology Innovation Hub, IT Park, Mantripukhri.

The inaugural function featured inspiring speeches from notable guests **Shri N. Debachandra Singh, Director, NIELIT Imphal**, Mr. Singh expressed his heartfelt gratitude towards the MTI Hub for their initiative in organizing the boot camp. He shared his satisfaction with the program's success and emphasized the societal benefits of such training sessions. He encouraged the organization to continue hosting similar programs, highlighting the positive impact on both individual participants and the community at large. He also reassured the attendees of his unwavering support and willingness to assist in future endeavors, reinforcing the collaborative spirit necessary for sustained progress.



A special session was conducted by **Dr. Rajiv Kangabam** Lead, MTI-HUB, focusing on the vital role played by the MTI-HUB in supporting startups. MTI-HUB, an incubation center, is dedicated to fostering innovation and entrepreneurship in the region. he highlighted several key areas where MTI Hub provides invaluable support to budding startups.



Shri R.K. Bigensana Singh, Deputy Director, NIELIT Imphal address an in-depth overview of the training program, which is funded by the Ministry of Electronics and Information Technology (MeitY), Government of India. He elaborated on the project "Capacity Building for Human Resource Development in Unmanned Aircraft Systems (Drone and related Technology)," explaining its goals and the importance of developing expertise in this cutting-edge field.



Dr. Hanjabam Saratchandra Sharma HoD, Computer Science Engineering Department, MTU highlighted the transformative potential of technology and the critical importance of training programs in fostering innovation and skill development.



He emphasized that such initiatives are particularly beneficial for technical students who seek practical, hands-on experience.



The program aimed to equip participants with comprehensive knowledge and hands-on experience in drone technology, focusing on its applications in various sectors such as agriculture, surveying, and disaster management.

The boot camp was designed to provide hands-on experience and comprehensive knowledge, from fundamental UAV principles to advanced autonomous flight and obstacle avoidance techniques.

Led by expert trainers **Mr. Thockchom Chitaranjan**, Technical Officer (TO), Department of Drone Electronics, NIELIT Imphal and **Mr. Salam Surjit Singh**, Project Associate (PA), Department of Drone Electronics, NIELIT Imphal, participants received top-notch instruction and guidance.

PROGRAM HIGHLIGHT ARE :

- Role of MTI Hub in supporting Startups
- Fundamentals of Unmanned Aerial Vehicle (UAVs)
- Construction of Quadcopter
- Drone Flight Controller setup, configuration, and programming
- One-on-One Drone Flying in Simulator
- Directorate General of Civil Aviation (DGCA) Regulation for Flying Drone
- Obstacle avoidance
- Self-Assemble drone with an online platform for purchase hardware & software
- Geo Fencing in plane, Autonomous mission
- Drone Flying with instructor





The "Construction of Autonomous Multirotor UAV for Obstacle Avoidance" boot camp was an outstanding success, leaving participants inspired and empowered. Over five days, attendees gained invaluable technical skills, engaged in hands-on learning, and formed lasting connections with peers and mentors. The program not only equipped them with the knowledge needed to excel in UAV technology but also ignited a deep passion for innovation and collaboration. Participants departed with a renewed sense of purpose and excitement, ready to make significant contributions to the rapidly evolving field of drone technology. The positive impact of this boot camp promises a bright future for all involved



3-DAYS TRAINING PROGRAM ON MEALWORM FARMING AND REARING " 26TH – 28TH JUNE, 2024

Mealworms, the larval form of the mealworm beetle (*Tenebrio molitor*), are exceptionally high in protein, making them an ideal candidate for both human consumption and animal feed. As the global population grows and the need for sustainable food sources intensifies, mealworms offer a promising solution that aligns with environmental and economic goals.

Recognizing the vast market opportunities and the nutritional benefits of mealworms, the **Manipur Technology Innovation Hub** in collaboration with **Maiyon Agro LLP** has organized a comprehensive 3-days training program on **Mealworm Farming and Rearing** from 26th to 28th June 2024.

The program aimed to provide participants with comprehensive knowledge and practical skills in mealworm cultivation, focusing on its benefits, techniques, and economic potential.

A special session was conducted by **Dr. Rajiv Kangabam Lead, MTI-HUB**, focusing on the vital role played by the MTI-HUB in supporting startups. MTI-HUB, an incubation center, is dedicated to fostering innovation and entrepreneurship in the region. He highlighted several key areas where MTI Hub provides invaluable support to budding startups.



Shri Okram Premjit Singh, Founder of MaiyonAgro LLP the master trainer of the session highlighted participants on the biology, ecology and lifecycle of mealworms, while highlighting the nutritional benefits and environmental advantages of mealworm farming. He also provides practical skills for setting up and managing a mealworm farm.

Further he also encourage the integration of mealworm farming into sustainable agricultural systems, advocate the use of mealworm frass as a natural fertilizer, and emphasize effective waste management and recycling practices.

PROGRAM HIGHLIGHTS

- Introduction to Mealworm Farming.
- Nutritional benefits of Mealworm.
- Understanding the lifecycle: egg, larva, pupa and adult beetle.
- Importance of Mealworm in Manipur.
- Prospects of breeding and rearing mealworm.
- Identification of mature and rabid worm for harvesting.
- Demonstration of different life stages of mealworm.
- Live demonstration of mealworm segregation.
- Live demonstration of mealworm feeding.
- Demonstration of mealworm rearing cabinet, machine used for segregation and different machines used for the process.
- Revenue model.
- Products based on Mealworm.
- Market size of Mealworm.
- Market opportunities of Mealworm.
- Breeding Technique.
- Feeding Mealworm.
- Process of Segregation.
- Separation technique.







The 3-day training program on mealworm farming and rearing, organized by the Manipur Technology Innovation Hub, was a resounding success. Participants were provided with a comprehensive blend of theoretical knowledge and practical skills essential for starting and maintaining a mealworm farm. The program covered crucial aspects such as the biology and lifecycle of mealworms, sustainable farming practices and the economic potential of mealworm farming.

Overall, the training program successfully achieved its objectives of educating and empowering participants to pursue mealworm farming as a sustainable and profitable agricultural practice. The Manipur Technology Innovation Hub remains committed to supporting these new ventures and promoting innovative agricultural practices in the region.



VISIT OF CHIEF SECRETARY, GOVERNMENT OF MANIPUR AT MTI-HUB 8 JUNE, 2024

MTI-HUB hosted **Dr. Vineet Joshi**, Chief Secretary, Government of Manipur along with **Ms. Mercina Panmei**, Joint Secretary Government of Manipur and **Shri Nambam Deden**, Director of Department of Information Technology, Government of Manipur.

This visit aimed to assess the progress, challenges, and potential of the startups being nurtured at the centre and to discuss ways to enhance support for innovation and entrepreneurship in the region. Team MTI HUB brief the impact report to the Chief Secretary and also the future upcoming programs.

The visit concluded with a commitment to work closely to overcome challenges and boost the startup ecosystem. Dr. Joshi expressed appreciation to the MTI-HUB team for the innovative efforts being made for entrepreneurial ventures.

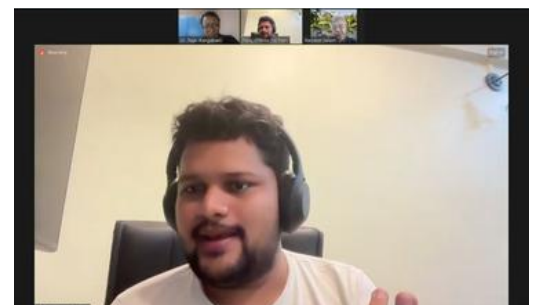


INTRODUCTIONS OF SOUTH ASIAN BAMBOO FOUNDATION (SABF AND GDI - WITH A DESCRIPTION OF WHAT WE ARE TRYING TO ASSESS AT OUR END)

MTI-HUB have participated in an interactive session with officials of South Asian Bamboo Foundation and GDI.

Following issues were discussed during the meeting :

- Understanding the Bamboo ecosystem- current players as well as SAbFs future goals, role in this - on both bamboo supply and demand.
- Trying to understand what the gaps in the ecosystem are and if there is an ecosystem building / systems change play possible to improve India's bamboo value chain in its entirety.
- Assessing where the biggest challenges lie- supply/ demand or financing (or any others) Experience of SAbF of working with other players in the bamboo value chain - anyone you think we should be connected to as we try to understand this space better



CONGRATULATIONS TO STARTUP WINNERS


 Department of Information Technology
Government of Manipur
 



 BCKIC
Shubaneswar City
Knowledge Innovation
Cluster Foundation

MANIPUR TECHNOLOGY INNOVATION HUB

CONGRATULATES



CHOKHONE KRICHENA

Founder
DIANTHE PRIVATE LIMITED



Project Title: Strengthening the Rural-Urban Link, Innovating and Enhancing Floriculture through Dry Flower Technology - A value addition to the Floriculture Industry

For being awarded with
DST NIDHI EiR Fellowship
For Budding Entrepreneur Pursuing a Promising Technology Business Idea

Manipur Technology Innovation Hub (MTI-HUB) Manipur IT Park, Imphal East - 795002


 Department of Information Technology
Government of Manipur
 



 BCKIC
Shubaneswar City
Knowledge Innovation
Cluster Foundation

MANIPUR TECHNOLOGY INNOVATION HUB

CONGRATULATES



CATHERINE SOYAMPHI

Founder
SOYAM PRODUCTS



Project Title: Chemical Free Glue for Housefly Traps

For being awarded with
DST NIDHI EiR Fellowship
For Budding Entrepreneur Pursuing a Promising Technology Business Idea

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Cluster Foundation

MANIPUR TECHNOLOGY INNOVATION HUB

CONGRATULATES



BONY YUMNAM

Founder
ELGAE TECH



Project Title: IoT Enabled Precision Solution for Mass Phyco Spirulina Protein Fortified Foods as a Circular Economy Innovation

For being awarded with
DST NIDHI EiR Fellowship
For Budding Entrepreneur Pursuing a Promising Technology Business Idea

Manipur Technology Innovation Hub (MTI-HUB) Manipur IT Park, Imphal East - 795002

ANNOUNCEMENT



**BCKIC**
Bhubaneswar City
Knowledge Innovation
Cluster Foundation





2-Days Training Program on Freshwater Pearl Farming For Entrepreneurship Development and Business Opportunities

KEY TAKEAWAY

- Comprehensive Understanding of Pearl Farming
- Biology and Care of Mussels
- Pearl Nucleation Techniques
- Business & Market Potential
- Hands-On Experience
- Networking Opportunities

SPECIAL SESSION

**Dr. Rajiv Kangabam**
Lead, Manipur Technology Innovation Hub

Role of MTI-HUB in

- Funding Opportunities
- Mentoring Support
- Prototype Development Facilities, etc.

RESOURCE PERSONS

**Dr. Ajit Kumar Ng**
Dean, School of Biological Sciences,
Manipur International University

**Lenin Laishram**
MSc. Biotech.

Organised by

Manipur Technology Innovation Hub (MTI HUB)
in association with
Manipur International University (MIU)

Knowledge Partner

Bhubaneswar City Knowledge Innovation Cluster Foundation (BCKIC)

Date : 29th - 30th July, 2024
Time : 11:00 AM - 3:00 PM
Venue : MTI HUB, IT Park, Mantripukhri, Manipur

The Gateway to South-East Asia & now **The Next Hot-Spot For Startups**



MANIPUR TECHNOLOGY INNOVATION HUB (MTI HUB)

Manipur Information Technology Park, Mantripukhri,

Imphal East, Manipur – 795002

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