



Report on “Workshop on The Art of Prototyping: Designing Processes for Tomorrow’s Solutions” (23.05.2024)

Introduction

The IIC Cell of Regent Education and Research Foundation Group of Institutions is organized a workshop titled “The Art of Prototyping: Designing Processes for Tomorrow’s Solutions” on 23rd May 2024, from 08:00 AM to 01:00 PM. This workshop aimed to equip participants with essential skills in prototyping, focusing on innovative design processes that can be applied to create solutions for future challenges. The event provided insights into the art of transforming ideas into tangible prototypes, fostering creativity and practical problem-solving skills among students and faculty.

Objective

The workshop "The Art of Prototyping: Designing Processes for Tomorrow’s Solutions" was organized with the following objectives:

1. **Promote Innovative Design Thinking:** To encourage creative and innovative approaches to problem-solving by teaching participants how to design and prototype solutions for future challenges.
2. **Equip Participants with Prototyping Skills:** To provide hands-on experience in the art of prototyping, enabling participants to transform ideas into tangible models.
3. **Enhance Practical Problem-Solving Abilities:** To develop participants’ abilities to apply design processes in real-world scenarios, improving their capacity to create functional and effective prototypes.
4. **Foster Collaboration and Creativity:** To create a collaborative environment where students and faculty can share ideas and learn from each other, fostering a culture of innovation within the institution.
5. **Prepare for Future Challenges:** To equip participants with the tools and knowledge needed to design processes that address emerging issues and opportunities in various fields.

By achieving these objectives, the “The Art of Prototyping: Designing Processes for Tomorrow’s Solutions” aimed to equip participants with essential prototyping skills and innovative design processes to create effective solutions for future challenges.

Organizing Committee

The program was orchestrated under the leadership of the following IIC Cell Members:

- Dr. Arindita Saha, President, IIC Cell
- Dr. Suman Jana, Convener IIC Cell, NISP Coordinator, ARIIA Coordinator
- Mr. Bipul Dhali, Member, IPR Activity Coordinator IIC Cell
- Mr. Sabyasachi Mukherjee, Member, Startup Activity Coordinator IIC Cell
- Ms. Shrabasti Roy, Member, Innovation Activity Coordinator IIC Cell
- Ms. Madhabi Ghosh, Member, Social Media Coordinator IIC Cell

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- Mr. Sreedip Ghosh, Member, Internship Activity Coordinator IIC Cell
- Mr. Subhadeep Mondal, Member, IIC Cell
- Ms. Debarati Ghosh, Member, IIC Cell
- Mr. Sourav Pramanik, Member, IIC Cell
- Mr. Supravat Basu, Member, IIC Cell
- Mr. Krishna Kanta Maity, Member, IIC Cell

Resource Persons:

The session was privileged to feature Dr. Prasanta Majumder and Dr. Satyajit Pattanayak. Dr. Pattanayak is a distinguished Postdoc Research Associate at Luleå University of Technology in Sweden, where his research primarily focuses on the thermochemical conversion of bamboo biomass. He earned his Ph.D. in Mechanical Engineering from NIT Mizoram and brings over eight years of rich teaching and research experience, having served as an Assistant Professor at both MITS and Ram Devi Jindal Institutions in India. A member of ASME and a lifetime member of the Indian Society for Heat and Mass Transfer, Dr. Pattanayak has contributed extensively to the academic community through numerous publications in leading journals. His expertise spans across essential engineering tools such as MATLAB, AutoCAD, Pro-E, and Ansys, which have bolstered his research capabilities. Notably, Dr. Pattanayak holds two patents in the renewable energy sector, underscoring his contributions to sustainable technology.

Dr. Majumder is currently serving as a DST-SERB, Government of India funded National Post Doctoral Fellow at the prestigious Indian Institute of Science, Bengaluru. He earned his Ph.D. in Solar Energy from NIT Mizoram and his M.Tech from NIT Agartala. With an undergraduate degree from Tripura Central University, Dr. Majumder has cultivated a robust foundation in sustainable energy technologies. His research spans energy storage, waste to energy, and drying technologies, among other areas. Dr. Majumder's work has resulted in 3 patents and numerous articles in SCI and Scopus indexed journals, in addition to book chapters. His professional journey includes significant roles such as an Assistant Professor at SIMATS University, Chennai, and a Project Scientist at the Tripura State Council for Science and Technology, where he led and supervised various government-sponsored projects.

Program Schedule:

Date: 23rd May 2024

Time: 08:00AM-01:00PM

Mode: Hybrid

Venue: RERFGI Seminar Hall (Hybrid)

Hosted by: Dr. Arindita Saha

Resource Persons: Dr. Prasanta Majumder and Dr. Satyajit Pattanayak

- Inauguration (08:00 AM - 08:15 AM)
- Lecture Session by Dr. Prasanta Majumder (08:15 AM – 10:30AM)
- Q&A and interactive Session (10:30AM-10:40AM)
- Lecture Session by Dr. Satyajit Pattanayak (10:40AM – 12:40PM)

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- Q&A and interactive Session (12:40PM – 12:50 PM)
- Vote of Thanks (12:50PM - 01:00 PM)

Proceedings of Workshop on The Art of Prototyping: Designing Processes for Tomorrow's Solutions" (23.05.2024):

The program began on schedule time at 08:00 AM at RERFGI Seminar Hall, with Dr. Arindita Saha serving as the host, providing a warm welcome to participants and introducing Dr. Prasanta Majumder and Dr. Satyajit Pattanayak.

Inauguration (08:00 AM - 08:15 AM):

The workshop began with an inauguration ceremony, where Dr. Arindita Saha welcomed participants and set the stage for the day's activities. The importance of prototyping in innovative design processes was highlighted, emphasizing its role in creating solutions for future challenges.

Lecture Session by Dr. Prasanta Majumder (08:15 AM – 10:30 AM):

Dr. Prasanta Majumder led the first lecture session, focusing on the fundamentals of prototyping and its application in design thinking. He shared insights on how to transform ideas into practical prototypes, covering various tools and techniques essential for effective prototyping.

Q&A and Interactive Session (10:30 AM - 10:40 AM):

A brief Q&A session followed Dr. Majumder's lecture, where participants had the opportunity to ask questions and discuss the concepts presented. This interactive segment allowed for a deeper understanding of the practical aspects of prototyping.

Lecture Session by Dr. Satyajit Pattanayak (10:40 AM – 12:40 PM):

The second lecture session was conducted by Dr. Satyajit Pattanayak, who delved into advanced prototyping techniques and their application in various industries. He also discussed case studies and examples of successful prototypes that have led to innovative solutions.

Q&A and Interactive Session (12:40 PM - 12:50 PM):

Another Q&A session followed Dr. Pattanayak's lecture, providing participants with the chance to engage in discussions and clarify any doubts. This session further reinforced the knowledge shared during the lectures.

Vote of Thanks (12:50 PM - 01:00 PM):

The workshop concluded with a vote of thanks from Dr. Arindita Saha. She expressed gratitude to the resource persons, participants, and organizers for making the event a success. The closing remarks highlighted the importance of continuing to develop prototyping skills to design innovative solutions for the future.

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Outcome of the Program:

The outcome of the “Workshop The Art of Prototyping: Designing Processes for Tomorrow’s Solutions” was:

1. **Enhanced Prototyping Skills:** Participants gained practical experience in transforming ideas into functional prototypes, improving their ability to design innovative solutions.
2. **Deepened Understanding of Design Processes:** Attendees developed a stronger grasp of the methodologies and tools used in prototyping, equipping them with the knowledge to apply these techniques in real-world scenarios.
3. **Increased Confidence in Innovation:** The workshop inspired participants to approach problem-solving with creativity and confidence, encouraging them to experiment with new ideas and processes.
4. **Fostered Collaboration:** The hybrid format allowed for dynamic interactions between participants and experts, fostering a collaborative learning environment that supported knowledge sharing and idea exchange.
5. **Preparation for Future Challenges:** Participants left with a better preparedness to tackle future challenges by applying the prototyping techniques learned, contributing to their overall growth as innovators and problem solvers.

Budget:

The budget for the “Workshop The Art of Prototyping: Designing Processes for Tomorrow’s Solutions” was meticulously planned and managed to ensure the effective allocation of resources:

- Venue and Logistics: INR 500
- Catering Services: INR 1000
- Awards and Certificates: INR 2000
- Miscellaneous Expenses: INR 500

Total Budget: INR 4,000

All expenses were within the allocated budget, contributing to the overall success of the event without financial overreach.

Conclusion:

The workshop "The Art of Prototyping: Designing Processes for Tomorrow’s Solutions" concluded successfully, providing participants with valuable insights and hands-on experience in the field of prototyping. The sessions led by Dr. Prasanta Majumder and Dr. Satyajit Pattanayak equipped attendees with essential skills for transforming innovative ideas into tangible prototypes. There were total 58 students and 18 faculties attended the program. The interactive discussions and practical guidance offered throughout the workshop fostered a deeper understanding of design processes, encouraging creativity and innovation among participants. The event highlighted the critical role of prototyping in developing effective solutions for future challenges, leaving attendees better prepared to apply these techniques in their academic

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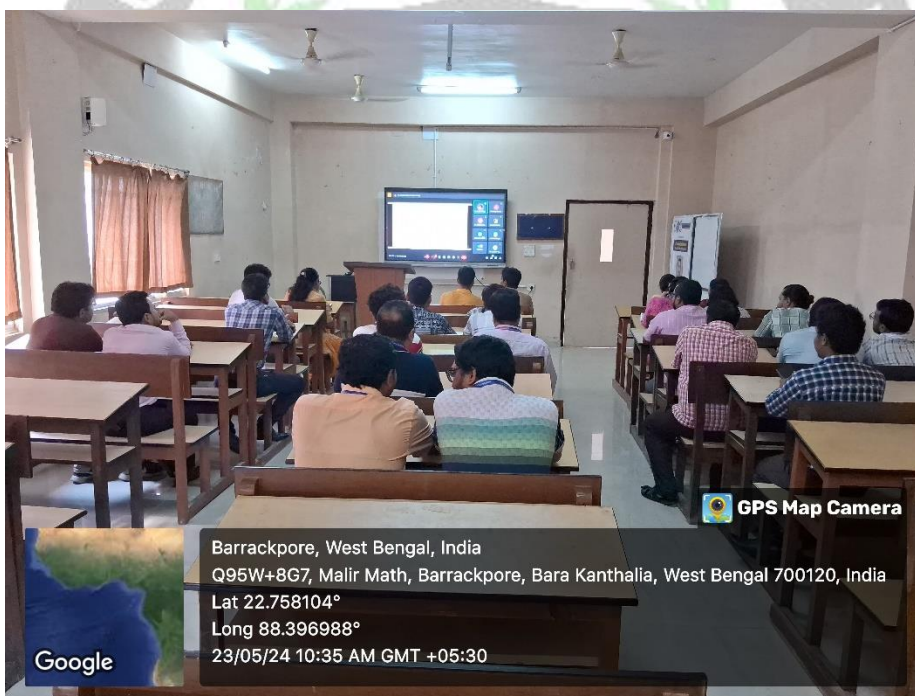


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and professional endeavors. The positive feedback and active engagement during the workshop underscored its success in nurturing a culture of innovation within the institution.

Event's Photographs:



Ashu

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