



# राष्ट्रीय प्रौद्योगिकी संस्थान मिज़ोरम National Institute Of Technology Mizoram

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# The Compendium

MAY 2023  
VOL.- I, ISSUE- XI

Monthly Newsletter

# Director's Message



**Prof. S. Sundar  
Director  
NIT Mizoram**

*Greetings !!*

*This is the Eleventh issue of the first volume of the Institute newsletter 'THE COMPENDIUM'. It is a short collection of advancement of our students, teaching fraternity and staff during the month of May, 2023.*

*From this issue, a new column, 'Research Outlook @ NIT MIZORAM', is added to the Newsletter to cultivate research interest in common readers.*

*I appreciate the Editorial team for their relentless effort in bringing out 'THE COMPENDIUM'. I congratulate faculty members and students for their publications, participation in academic events, organising academic activities and other notable achievements.*

*I wish all the readers a happy reading !!*





# Editor~ In~ Chief's Message



Dr. Shuchi  
Asst. Prof.  
Dept. of HSS (English)

*Warm Greetings !!*

*I am pleased to bring out the Eleventh issue of the Institute monthly newsletter, 'THE COMPENDIUM: a synopsis of events and academic prosperity of NIT Mizoram'.*

*The highlights of the current issue are academic & outreach activities and a wide spectrum of research & development, for the month of May 2023.*

*I express my heartfelt gratitude towards the Director, NIT Mizoram, Prof. S. Sundar for his encouragement and support. I am sure including 'Research outlook @ NIT MIZORAM', an initiative by Prof. S. Sundar, Director NIT Mizoram will motivate young minds towards prosperous and emerging research paradigms.*

*I extend my sincere thanks to the Editor, Dr. Saurav Suman for all his help and technical support.*

*I also thank all my colleagues (faculty & office staff) and students of NIT Mizoram for their support by sending their achievements to us.*

## **EDITORIAL BOARD**



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Mr. K. Santha Ram

Research Scholar

Dept. of HSS (English)

## **RESEARCH AND DEVELOPMENT**

### ❖ **WORKSHOPS/CONFERENCES/STTP/ EXTRA-MURAL**

1. Extra-Mural on Today's Engineers From India – How To Be Ready For The Industry

**National Institute of Technology Mizoram**  
An Institute of National Importance under Ministry of Education (Shiksha Mantralaya), Govt. of India  
Chaltlang, Aizawl, Mizoram - 796012, INDIA

Presents  
**A Extramural Talk**  
on  
**Today's Engineers From India  
– How To Be Ready  
For The Industry?**

**Distinguished Speaker**  
  
**Dr. Chinmoy Samajdar**  
Chief General Manager  
Steel Authority of India Limited

**Patron**  
  
**Prof. S. Sundar**  
Director  
NIT Mizoram

Organized by  
**NIT Mizoram**

Time: **6:00-7:00 pm. (IST)**  
Date: **May 20, 2023**

Meeting ID will be Provided to Registered Participants

Registration Link:  
<https://forms.gle/PqHShy7p5Ze4ys1P9>

**No Registration Fee**

**\*Last Date and Time of Registration\*  
20.05.2023 THU 4:00PM**

### ❖ **PUBLICATION (Journal/Conference/Book Chapter)**

1. Kanthala Uma Reddy, Bachu Deb, Bidesh Roy, "A Numerical and Experimental Study on the Performance of a Conventional H- Darrieus Wind Rotor with Auxiliary Blades" Ocean Engineering. (<https://doi.org/10.1016/j.oceaneng.2023.114697>)
2. Sarasij Adhikary, Pabitra Kumar Biswas, Chiranjit Sain, Sudhakar Babu Thanikanti, Nnamdi I. Nwulu, "Bidirectional Converter Based on G2V and V2G Operation with Time of Usage-based Tariff Analysis and Monitoring of Charging Parameters Using IoT" Energy Report. (doi.org/10.1016/j.egy.2023.04.358)
3. Upama Das, Sukanta Debnath, Suraj Gupta, Pabitra Kumar Biswas, Thanikanti Sudhakar Babu, Nnamdi I. Nwulu, "Active Magnetic Bearing System Using I-Type and U-Type Actuator" ", IEEE Access. (10.1109/ACCESS.2023.3276324)
4. Binilkumar AS, Konthoujam Gyanendra Singh, Prasanta Leichombam, "Informing Ecosystem Values of Loktak Lake in Manipur, India: An Application of Discrete Choice Experiments" Marine and Freshwater Research. (10.1071/MF21337)

### ❖ **WORKSHOPS/CONFERENCES/STTP/FDP ATTENDED**

1. K. Santha Ram (Research Scholar, English) attended and presented a paper titled "Film Aesthetics: Mobilizing Rare Diseases among Masses" in Two-day National Conference on Disability Representation in Literature and Culture, organized by the Dept. of English and Cultural Studies, Mizoram University, Aizawl from 25<sup>th</sup> to 26<sup>th</sup> May, 2023.

2. Dwaipayan Roy (Research Scholar, English) completed Workshop "Knowing Europe: Renaissance and Enlightenment to Contemporary Trends and Challenges" organized by Guru Gobind Singh Indraprastha University in collaboration with Jean Monnet Module Centre for European Studies, SIS, Jawaharlal Nehru University and Indian Centre for Cultural Diplomacy and received the certificate on 22nd May 2023
3. Sk Enamul (Research scholar, Mathematics) attended "An Extramural Talk on Today's Engineers from India – How to Be Ready For The Industry?" organized by the National Institute of Technology Mizoram on 20<sup>th</sup> May 2023.
4. Sushil Joshi (Research Scholar, Physics) attended an International Conference on Recent Advances in Energy Materials and its Applications (ICRAEMA-2023) Organized by the Department of Physics Pachunga University College, Aizawl from 30<sup>th</sup> to 31<sup>st</sup> May 2023.
5. Amlanjyoti Gogoi (Research scholar, Chemistry) attended an International conference on current trends in green and sustainable chemistry (ICCTGSC-2023) Department of Chemistry Pachunga University College, Aizawl from 11<sup>th</sup> May to 12<sup>th</sup> May 2023.
6. J. Rozamlia (Research Scholar, Chemistry) attended an International conference on current trends in green and sustainable chemistry (ICCTGSC-2023) Department of Chemistry Pachunga University College, Aizawl, from 11<sup>th</sup> May to 12<sup>th</sup> May 2023.
7. D Rupalakshmi (Research scholar, Mathematics) Attended "One Week Faculty Development Program on 'Scientific Language' organized by The Assam Kaziranga University, Jorhat, Assam from 26th April 2023 to 2nd May 2023

## FACULTY AWARDS & ACHIEVEMENTS

1. Prof. Sundar, Director, NIT Mizoram was in Selection Committee of Faculty Interview at IIT Jammu on 12<sup>th</sup> May 2023.
2. Prof. Sundar, Director, NIT Mizoram attended SUPRA online meeting held at Vizag on 16<sup>th</sup> May 2023.
3. Dr. Sushanta Bordoloi (Co-PI) for a project titled *Development of a Portable Neonatal Intensive Care Unit for Newborn Puppies* by Assam Agricultural University with approx. 11 lakhs.
4. Dr. Sushanta Bordoloi (Co-CI) for a project titled *A Low Power Edge Enabled Smart and Secure Precision Agriculture Ecosystem* by MeITY with approx. 109 lakhs.

### 1. EXPERT/INVITED TALK /SESSION CHAIRED IN WORKSHOP/STTP/CONFERENCE:

1. Prof. Saibal Chatterjee delivered a talk on **Engineering Innovation for a more Resilient World** in a Webinar on Celebration of World Engineering Day by IE (I) Mizoram State Centre and NIT Mizoram on 30<sup>th</sup> May 2023.
2. Dr. P.K Biswas chaired a session at ICUS 2023 on 21<sup>st</sup> May 2023.



## ❖ OUTREACH ACTIVITIES



With the support of the South Asia Working Group - IEEE Smart Village, NIT Mizoram organised an outreach programme at Govt. Chaltlang Middle School, Aizawl. Two basic level electrical kits were also donated to the school for the development of the kids of the school. Around 50 school kids, along with some teachers participated in the programme. From NIT Mizoram, the coordinator, along with a lab technician from EE Dept. and three students helped in organising the event.





### ❖ RESEARCH OUTLOOK @ NIT MIZORAM

**K. Santha Ram**, a full-time research scholar in **English** working on Disability Studies at the Institute. His research focuses on analysing the disability representation in Hindu Mythology, Folklore and Bollywood. Disability studies is one of the emerging areas in the fields of systematic inquiry. Starting from ancient civilizations to the present, persons with disability are stigmatized and stereotyped. Through this research, the conventional notions of disability would be contested. And the possible outcome of this research is to mobilize people about persons with a disability using Hindu mythology and Bollywood.



आ नो भद्राः क्रतवो यन्तु विश्वतोऽदब्धासो अपरितासउद्भिदः

LET NOBLE THOUGHTS COME TO ME FROM ALL DIRECTIONS (Rig veda 1.89. 1)