



राष्ट्रीय प्रौद्योगिकी संस्थान मिजोरम
NATIONAL INSTITUTE OF TECHNOLOGY MIZORAM

THE COMPENDIUM

December 2022
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Monthly Newsletter

Director's Message



Prof. S. Sundar
Director
NIT Mizoram

Greetings !!

This is the Sixth 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 December, 2022.

I appreciate the Editorial team for their relentless effort in bringing out 'THE COMPNDIUM'. 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 Sixth 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, observation of Veer Baal Diwas at NIT Mizoram for the month of December 2022.

I express my heartfelt gratitude towards the Director, NIT Mizoram, Prof. S. Sundar for his encouragement and support.

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.

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RESEARCH AND DEVELOPMENT

❖ PUBLICATION (Journal/Conference/Book Chapter)

1. Atreyee Sinha, Shuchi, "From Tattered Past to Triumphant Present: Weaving Partitioned Lives by a Dalit Girl-child in Kalyani Thakur Charal's Novella Andhar Bil O Kicchu Manush" Rupkatha Journal Vol. 14 No. 4 pg 1-15 (<https://doi.org/10.21659/rupkatha.v14n4>)
2. Debbie Lalrinawmi, Shuchi, "Racial Prejudice and Gender Discrimination against Northeast Indians amidst COVID-19" Rupkatha Journal (<https://doi.org/10.21659/rupkatha.v14n4.32>)
3. Madutha Santosh Kumar, Santigopal Maity, Soumojit Shee, Ayan Kumar Bandyopadhyay, Debashish Pal, and Chaitali Koley, "Design Studies of Re-Entrant Square Cavities for V-Band Klystrons", Electronics, Vol 12, pp. 2023, 20 December 2022 (<https://doi.org/10.3390/electronics12010006>)
4. Anu Kumar Das, Dayal Ch Shill, Saibal Chatterjee, "Experimental Investigation on Breakdown Performance of Coconut oil for High Voltage Application" Electric Power Systems Research, Vol 214 (2023 & 10.1016/j.epsr.2022.108856)
5. P. Bhattacharjee, C. Koley, S. Chatterjee, "Blockchain-Based Clean and Green Energy (Pico Hydel Power) Monitoring System" accepted for BIICCDN-2022 at Sikkim Manipal Institute of Technology, Sikkim, India, 16 -17th December 2022
6. Suraj Gupta, Sukanta Debnath & Pabitra Kumar Biswas, "Control of an Active Magnetic Bearing System Using Swarm Intelligence-Based Optimization Techniques" Electrical Engineering (<https://doi.org/10.1007/s00202-022-01707-0>)
7. Suraj Gupta, Pabitra Kumar Biswas et.al., "Modelling, Simulation and Performance Comparison of Different Membership Functions Based Fuzzy Logic Control for an Active Magnetic Bearing System" <https://doi.org/10.1049/tje2.12229> (In Press)
8. Shalini Patel, Soumyadeep Das, Debasis Mitra, Subhasis Sarkar, Chaitali Koley, "Biological Liquid Monitoring using Microwave Resonator", URSI Regional Conference on Radio Science (URSI-RCRS 2022), 1-4th December 2022, at IIT, Indore
9. Sukabya Dan, P Banerjee, Chaitali Koley, Ashish Agarwal, Pranalee Thorat and Anindya Bose, "Post-sunset Scintillation on NavIC Signals during Equinoctial Periods of 2021-2022", URSI Regional Conference on Radio Science (URSI-RCRS 2022), 1-4th December 2022, at IIT, Indore
10. Sukabya Dan, P Banerjee, Chaitali Koley, Ashish Agarwal, Pranalee Thorat and Anindya Bose, "Studies on NavIC Timing Capabilities using Geodetic and Compact GNSS Receivers", URSI Regional Conference on Radio Science (URSI-RCRS 2022), 1-4th December 2022, at IIT, Indore
11. Naveen Kumar Boddukuri, Debashish Pal, Ayan Kumar Bandyopadhyay, and Chaitali Koley, "Comprehensive Analysis of Energy Efficiency Using Cooperative

Spectrum Sensing Network", Wireless Personal Communications, 14 December 2022, (<https://doi.org/10.1007/s11277-022-10123-3>)

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

1. Prof. Ajmal Koya Pulikkal attended the International conference on 'Advances in Smart Materials, Chemical & Biochemical Engineering (CHEMSMART-22), held at the Department of Chemistry, National Institute of Technology, Rourkela, Odisha in December 16-18, 2022
2. Suraj Gupta, Pabitra Kumar Biswas, Jonathan Laldingliana and Sukanta Debnath presented a paper titled "*Comparative Analysis Among Different Types of Power Amplifier for Active Magnetic Bearing System*" IEEE International Power and Renewable Energy Conference (IPRECON 2022) in December 16-18, 2022
3. SarasijAdhikary, Pabitrakumar Biswas presented a paper titled "*Bi-directional EV Charging for Grid to Vehicle and Vehicle to Grid and Battery Monitoring System using IoT in Simulink*" IEEE International Conference on Disruptive Technologies for Multi-Disciplinary Research and Applications (CENTCON-2022) at the Dayananda Sagar University, Bengaluru in December 22-24, 2022
4. Anjali Rawat (Research Scholar, Mathematics) attended "Online Short Term Training Programme (STTP) on "Python Programming for Students, Engineers & Researchers" in December 26-30, 2022
5. Sushil Joshi (Research Scholar, Physics) attended the 22nd National Seminar on Ferroelectrics and Dielectrics, VIT-AP University, Amravati (A.P.) Online, December 17-19, 2022
6. Smitashree Singh (Research Scholar, Physics) attended the 22nd National Seminar on Ferroelectrics and Dielectrics, VIT-AP University, Amravati (A.P.) Online, December 17-19, 2022

FACULTY AWARDS & ACHIEVEMENTS

1. Prof. S. Sundar, Director, NIT Mizoram was a Selection Committee Expert for the Recruitment of Scientists, DRDO, New Delhi 02.12.2022.
2. Prof. S. Sundar, Director, NIT Mizoram was a Selection Committee Expert, Faculty Selection at IIT Dharwad 30.12.2022 & 31.12.2022.
3. Prof. Saibal Chatterjee received a project by SERB- CRG titled *Study of the Condition Monitoring Techniques of Dry Transformers* of Rs. 43,88,162/-
4. Prof. Ajmal Koya Pulikkal received a project Accelerate Vigyan – Vritika SERB titled *Effects of Additives on Self-Assembly of Surfactants* of Rs. 1,50,000 /-

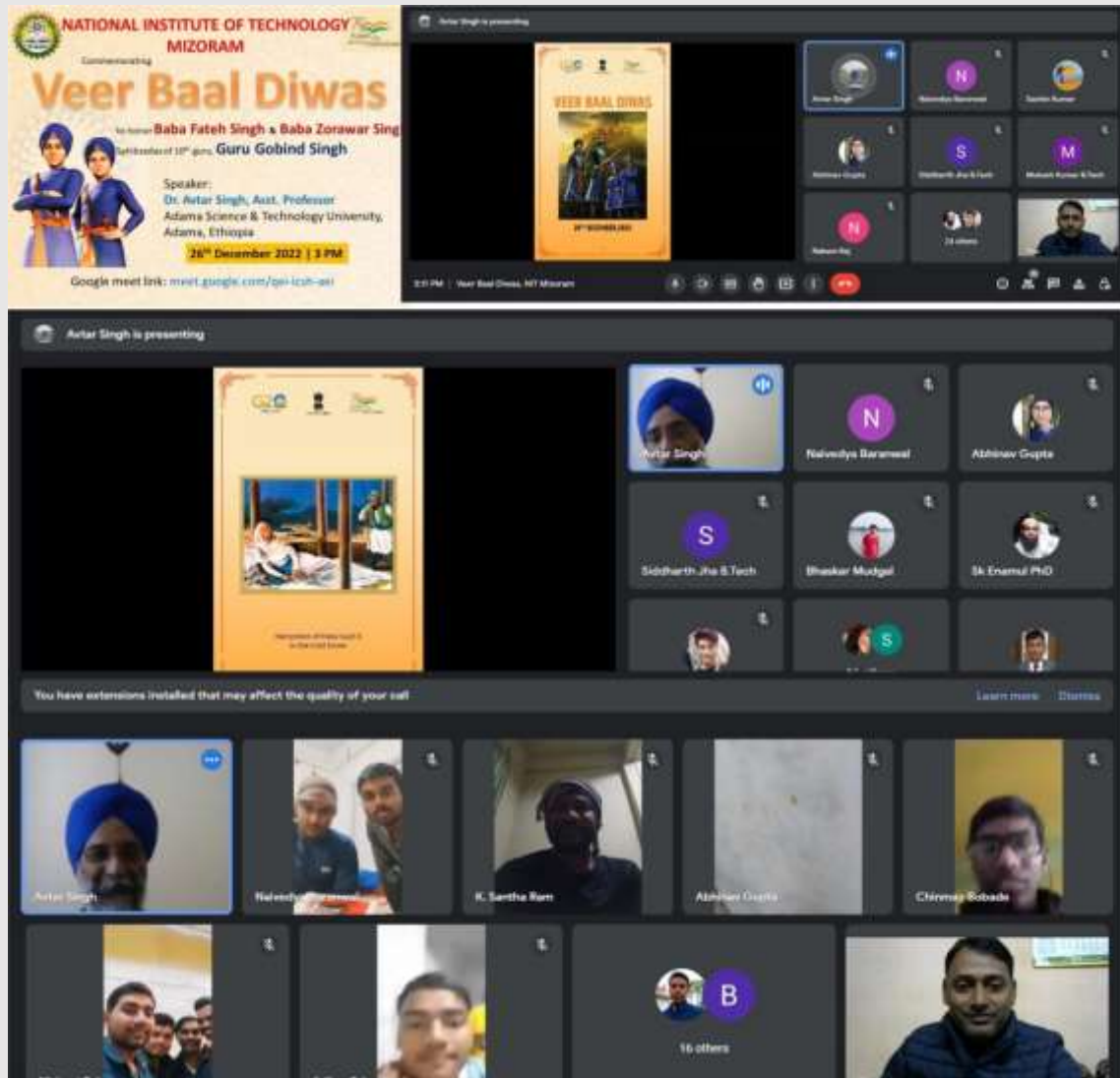
1. EXPERT/INVITED TALK /SESSION CHAIRED IN WORKSHOP/STTP/CONFERENCE:

1. Prof. S Sundar, Director, NIT Mizoram delivered a *Key Note Lecture on the Ramanujan Day* at NIT Warangal on December 22,2022
2. Prof. Alok Shukla delivered a talk on the *Effect of Gd, Dy and Y substitutions on various properties of Bismuth Ferrite* at 28th International Conference of International Academy of Physical Sciences (CONIAPS XXVIII) VSK University, Ballari, Karnataka, December 21-23, 2022.
3. Dr. Surender Ontela chaired a session in National Conference On Computational Mathematics, organized NIT Puducherry, December 22-23, 2022.
4. Dr. Vaibhav Malviya delivered an expert talk on *Autonomous Social Robots* at Indira Gandhi Delhi Technical University for Women New Delhi on 26th December 2022

❖ IMPORTANT DAYS OBSERVED AT NIT MIZORAM

1. Veer Baal Diwas

NIT Mizoram commemorated the Veer Baal Diwas to honor the martyrdom of Baba Fateh Singh Ji and Baba Zorawar Singh Ji, Sahibzadas of 10th Shikh guru, Guru Gobind Singh Ji on 26th December 2022. An external speaker, Dr. Avtar Singh, Assistant Professor, Adama Science and Technology University, Adama, Ethiopia was invited to deliver a talk on the topic. He has put some light on the life of the two Sahibzadas of Guru Gobind Singh Ji. The students and faculties of NIT Mizoram attended the exhibition and the talk. The program was ended with the vote of thanks extended to the Director of NIT Mizoram Prof. S. Sundar, the external speaker Dr, Avtar Singh, students and faculties of NIT Mizoram by the organizer of the program Dr. Ramesh Kumar, Asst. Professor, Dept. of Electrical and Electronics Engineering, NIT Mizoram.



STUDENTS ACHIEVEMENTS

1. Avishek Gope, a student of 3rd year of CSE is selected for a research internship in Dept. of Computer Engineering, National Taiwan University of Science and Technology.
2. Sakar Baxi, a final year, CSE student is selected as a Blockchain Developer Intern at Intelliblock Technologies, Mumbai for a duration of 6 months.



अंतःअस्ति प्रारंभः
(THE END IS THE NEW BEGINNING)