



राष्ट्रीय प्रौद्योगिकी संस्थान मिजोरम
NATIONAL INSTITUTE OF TECHNOLOGY MIZORAM

THE COMPENDIUM

July 2022
Vol.~ I, Issue~ I

Monthly Newsletter

Director's Message



Prof. S. Sundar
Director
NIT Mizoram

Greetings !!

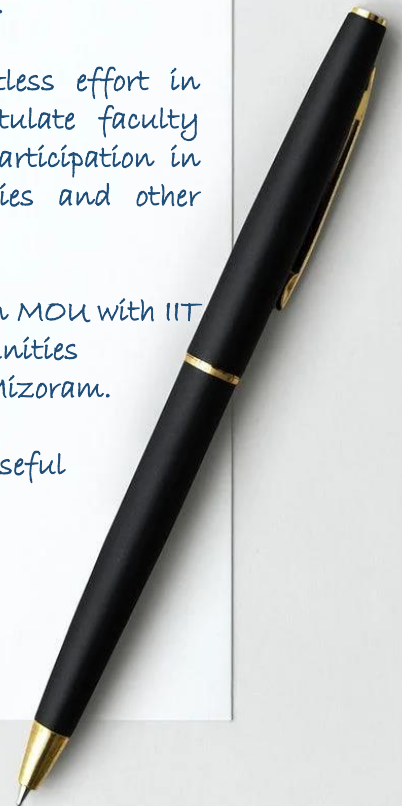
I am extremely delighted to announce the release of the first issue of the newsletter 'THE COMPENDIUM'. The motive behind this newsletter is to applaud our students, teaching fraternity and staff for their contributions and accomplishments.

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 am glad to mention that NIT Mizoram signed an MOU with IIT Madras on 12th July 2022. It opens various opportunities for academic and research collaborations for NIT Mizoram.

I am sure this newsletter will be informative and useful for academic community.

Enjoy the reading !!



Editor~ In~ Chief's Message



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

Warm greetings !!

I am pleased to pour out my thoughts on the release of the first monthly newsletter, 'THE COMPENDIUM: a synopsis of events and academic prosperity of NIT Mizoram'. To explain the cover page of 'The Compendium'. I would start with the famous saying 'Never judge a book by its cover'. However, I believe the cover is surely the face of a book. Therefore, the cover page of 'The Compendium' is thoughtfully chosen to exhibit the eclectic blend of sciences, mathematics and technologies to manifest the soul of NIT Mizoram as a technical Institute of national importance.

The highlights of the current issue are academic & outreach activities and wide spectrum of research & development at NIT Mizoram for the month of July.

We also introduced the 'EVENTISTRY' section which is a collection of memorable and colourful moments of NIT Mizoram.

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

I also extend my thanks to the editor, Dr. Saurav Suman for all his helps and technical supports. I also thank my colleagues and students for their contributions.

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RESEARCH AND DEVELOPMENT

❖ Workshop/Conference/STTP/FDP Organised

✚ **Training Program on REMOTE SENSING AND GEOSPATIAL TECHNOLOGY FOR LANDSLIDE MITIGATION AND MANAGEMENT IN NORTH EASTERN REGION from 24/07/2022 to 28/07/2022**

The Department of Civil Engineering, NIT Mizoram in Collaboration with IIT Tirupati Navavishkar I-Hub Foundation (IITTNiF) Technology Innovation Hub in Positioning and Precision Technologies organized a five- day training program on 'Remote Sensing and Geospatial Technology for Landslide Mitigation and Management in North Eastern Region' from 24/07/2022 to 28/07/2022. The main objectives were to acquaint participants with varied applications of space technology in disaster risk reduction, to learn and demonstrate the use of space technology applications for landslide monitoring, mapping and management, and to familiarize with space technology application in assessment and monitoring of hazards and update participants with recent advancement in space technology and its usage in north eastern region. **Prof. (Dr.) K. N. Satyanarayana, Director, IIT Tirupati** was the Chief Guest for the training

program. About 43 participants from north eastern Indian States viz. Assam, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, and Tripura, had attended the said training. The government officials were nominated from GSI, State Disaster Management Authority and PWD.





✚ A five-day workshop on ARTIFICIAL INTELLIGENCE AND HPC from 25/07/2022 to 29/07/2022

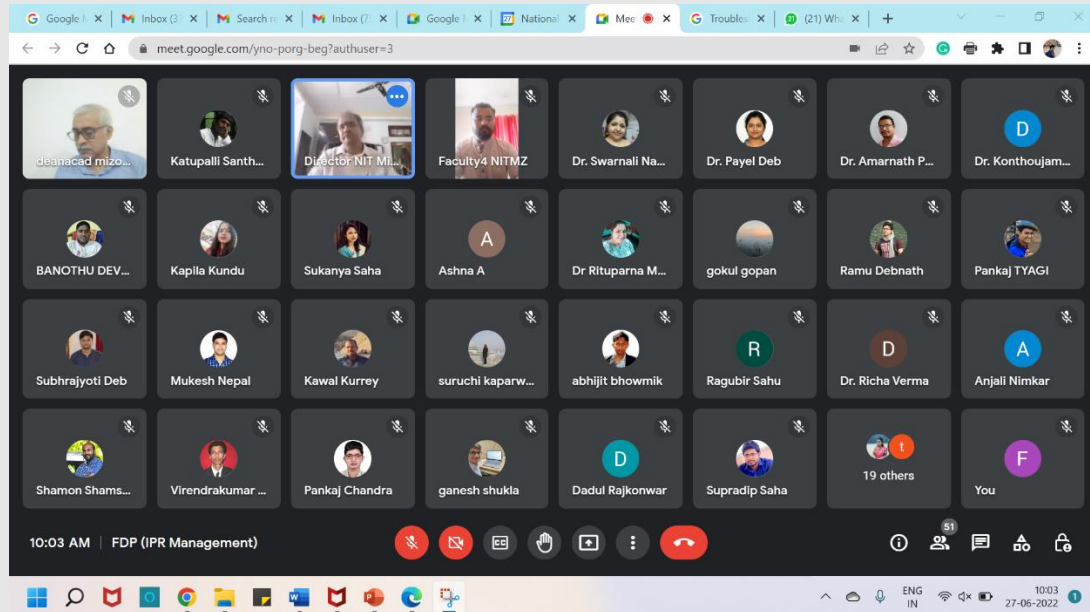
A 5days Workshop on “AI-HPC” was organized in Dept. of CSE in coordination with IIT Kharagpur. The workshop was organized in online mode. Dr. Ranjita Das, Asst. Prof., Dept. of CSE was the convener of this workshop. The Workshop was immensely successful with the presentation from different pioneer researchers of the field. The participants were enlightened with the new research ideas and current proceedings in the field.



✚ AICTE sponsored Faculty Development Program on ‘IPR Management’ from 27th June to 1st July 2022.

An AICTE sponsored Faculty development Program on ‘IPR Management’ was organized in online mode. Dr. Saurav Suman, Asst. Prof., Dept. of ME and Dr. Shuchi, Asst. Prof., Dept. of HSS (English) were the coordinators of the program. This FDP included experts from Academics (IIT Kharagpur, NLU Raipur, IIM Ahmedabad etc.)

and Industries (Hero MotoCorp Pvt. Ltd., Jaipur; Bugatti Rimac, Croatia, HERE Technologies etc.) who were directly or indirectly involves in IPR Management at their level. There were around 91 participants across the country and abroad from Thailand, Singapore, USA etc.



❖ PUBLICATION (Journal/Conference/Book Chapter)

1. P. Loktongbam, Chaitali Koley, Debasish Pal, Ayan Kumar Bandyopadhyay, “*Design of a Wide Band Antenna with Defected Ground Structure for mm wave System on Chip Applications*” Journal Microsystem Technologies, 2022.
2. Nitesh Kumar Singh, Chaitali Koley, and Sadhan Gope, “*Wind Energy and Pumped Hydro Storage Integrated Power System Risk Analysis using VaR and CVaR*” International IEEE Conference on Next Generation Intelligent Systems (ICNGIS 2022) 29-31st July 2022, Rajiv Gandhi Institute of Technology, Kerala, India
3. Biswajit Senapati & Ranjita Das, “*Single-Cell RNA Sequence Data Analysing Using Fuzzy de Based Clustering Technique*”, Journal Advances in Distributed Computing and Machine Learning, Lecture Notes in Networks and Systems, 2022.
4. Pradipta Ghosh, A. K. Das, Sovan Dalai, and Saibal Chatterjee, “*The Effects of Non-Standard Lightning Impulse on Electrical Insulation: A Review*”, Electrical Engineering [Accepted]
5. Suraj Gupta and Pabitra Kumar Biswas, “*Classical Control Techniques Used in Controlling of An Active Magnetic Bearing System*”, IEEE 2nd Asian Conference on Innovation in Technology (ASAINCON 2022), 26-28 August,2022 Pune. [Accepted]
6. Anupama Ganguly and Pabitra Kumar Biswas, “*Comparative Performance Analysis of Hybrid MPPT for Standalone Photovoltaic Boost DC-DC Converter*”, 7th International Conference on ICT for Sustainable Development (ICT4SD 2022), Goa. [Accepted]

7. Anagha Bhattacharya et al, "Trajectory Tracking and Link Vibration reduction of Flexible Manipulator in the presence of Matched Uncertainty and External Disturbances using Lyapunov Based Controller", FICTA 2022. [Accepted]
8. Malsawmdawngkima, Ajmal Koya Pulikkal, 'Clay-polymer nanocomposites for water and wastewater treatment: A review', Chemosphere, 2022.
9. Dwaipayan Roy, Shuchi, 'A critical Essay on Priya's Mask' Asian Voices in Pandemic, 2022. ISBN: 978-93-55-66-458-7.

❖ WORKSHOPS/CONFERENCES/STTP/FDP ATTENDED

1. Gokul Gopan (Research scholar, ME) attended a workshop on 'Advanced Instrumentation for Material characterisation techniques' at VIT Chennai on 22/07/2022
2. Virendra Pratap Singh (Research scholar, ME) attended a workshop on 'Weld Defects and their remedies' at IIT Roorkee on 09/07/2022
3. Virendra Pratap Singh (Research scholar, ME) attended High-End Workshop on 'Advances in Welding and Additive Manufacturing' at SVNIT, Surat from 18/07/2022 to 24/07/2022.
4. K. Santha Ram, (Research scholar, HSS (English)) attended a workshop on 'Sustainable Development Goals and Disability conducted by Council for Social Development', Hyderabad from 13/07/2022 to 15/07/2022.
5. K. Santha Ram, (Research scholar, HSS (English)) attended and presented a paper titled 'Disability in Indian Mythology' at the 8th JGU International Literary Conference from 18/07/2022 to 20/07/2022.
6. Amlanjyoti Gogoi (Research scholar, BS (Chemistry)) attended AICTE sponsored Five Days Faculty Development program on 'IPR Management', organized by NIT Mizoram from 27/06/2022 to 01/07/2022
7. J. Rozamlina (Research scholar, BS (Chemistry)) attended AICTE sponsored Five Days Faculty Development program on 'IPR Management', organized by NIT Mizoram from 27/06/2022 to 01/07/2022
8. Lalduhawma Chhakchuak (Research scholar, BS (Chemistry)) attended Workshop on 'Computational Chemistry of Materials: Molecule, Solids, Nanoparticles and Biological Activity (CCM-2022)' from 04/07/2022 to 10/07/2022
9. Thelma Lalhmingthangi (Research scholar, HSS (Economics)) attended '15th Global Studies Conference, Athens, Greece from 21/07/2022 to 23/07/2022
10. Mr. Sarasij Adhikary (research scholar, EEE) presented paper entitled "An Innovative Approach to Reduce the Grid Stress by Developing Bi-directional Converter based on Modified Cost Tariff of EV Charging " in 'IEEE International Conference on Sustainable Technology for Power and Energy Systems STEPES' from 04/07/2022 to 08/07/2022 NIT Srinagar.
11. Dr. Ajmal Koya Pulikkal (Assoc. Prof., Dept. of BS (Chemistry)) attended Online Faculty Development Program (FDP) on 'Computational Chemistry of Materials' from 25/07/2022 to 31/07/2022

12. Dr. Pabitra Kumar Biswas (Asst. Prof., Dept. of EEE) has presented a paper entitled “Full-Bridge DC-DC Converter and Boost Converter with Resonant Circuit for Plug-in Hybrid Electric Vehicles” in International Conference on Intelligent Controller and Computing for Smart Power (ICICCSP-2022 (Technically cosponsored by IEEE Hyderabad Section) organized by the Department of Electrical and Electronics Engineering (EEE), Sreenidhi Institute of Science And Technology (SNIST), Hyderabad, India during 21st- 23rd July 2022.

FACULTY AWARDS & ACHIEVEMENTS

❖ EXPERT/INVITED TALK /SESSION CHAIRED IN WORKSHOP/STTP/CONFERENCE:

1. Dr. Sushanta Bordoloi (Asst. Prof. Dept. of ECE) chaired a Technical Session – III (Engineering/ Management/Mathematical Sciences) at 8th International Conference on Computers, Management & Mathematical Science (ICCM), 29-30 July 2022, NERIST, Arunachal Pradesh.
2. Dr. Sandeep Kumar Dash (Asst. Prof. Dept. of CSE) delivered a talk on Image Caption Generation at Artificial Intelligence and HPC conference on 27/07/2022
3. Dr. Lenin Laitonjam (Trainee Teacher, Dept. of CSE) delivered a talk on Hands on session on AI in NLP at Artificial Intelligence and HPC conference on 29/07/2022
4. Dr. Pabitra Kumar Biswas (Asst. Prof. Dept. of EEE) has served as Session Chair for Session-16 in “International Conference on Intelligent Controller and Computing for Smart Power (ICICCSP-2022)” (Technically cosponsored by IEEE Hyderabad Section) organized by the Department of Electrical and Electronics Engineering (EEE), Sreenidhi Institute of Science and Technology (SNIST), Hyderabad, India during 21st-23rd July 2022.
5. Dr. Ramesh Kumar (Asst. Professor, Dept. of EEE) attended an outreach event focused on ‘Digital India Enabling Social Empowerment’ as a speaker which was organised by Software Technology Park of India (STPI), Aizawl on 27th July 2022.
6. Minakshi Boruah and Ranjita Das recieved Best Paper Award on 04/07/2022 in FICTA – 2022.
7. Prof. Saibal Chatterjee (Prof., Dept. of EEE) was a reviewer of ‘Electric power Systems Research’ Elsevier (Q1).
8. Prof. Saibal Chatterjee (Prof., Dept. of EEE) was a reviewer of International Journal of Electrical Power and Energy Systems (Elsevier Q1).
9. Prof. Saibal Chatterjee (Prof., Dept. of EEE) was a reviewer of IEEE Access (IEEE Q1).
10. Dr. Saurav Suman, (Asst. Prof., Dept. of ME) was a reviewer of International Journal of Pressure Vessels and Piping, (Elsevier Q1)
11. Dr. Saurav Suman, (Asst. Prof., Dept. of ME) was a reviewer of Marine Georesources and & Geotechnology, (Taylor’s and Francis Q1)

MOU BETWEEN NIT MIZORAM AND IIT MADRAS

❖ Scope:

1. Student Exchange

Pursuant to the agreement for academic exchange, NIT Mizoram and IIT Madras will exchange students. It is desired by both parties that there will be a significant flow of students in both directions.

2. Research Collaboration

Faculty from both institutions will collaborate in the supervision of exchange students and in joint research in disciplines of mutual interest.

3. Admission of the top 10% of the students of NIT Mizoram to direct PhD at IIT Madras.



❖ Top 10% BTech Students from each department of NIT Mizoram exchanged for direct PhD Programme at IIT Madras

List of Students

Sl. No.	Name	Branch
1	Saurav Roy	Civil Engineering
2	Harshit Singh	Civil Engineering
3	Janam Supriya	Computer Science & Engineering
4	Niraj Kumar	Computer Science & Engineering
5	Saurabh Raj Ratan	Computer Science & Engineering
6	Ayushi Rajshekhar	Electrical & Electronics Engineering
7	Mohammad Zaid	Electrical & Electronics Engineering

	Ahmad	
8	Sumit Saurabh	Electronics & Communication Engineering
9	Kaustubh Mani	Electronics & Communication Engineering
10	Abhinandan	Mechanical Engineering
11	Alok Kumar Yadav	Mechanical Engineering



EVENTISTRY





WORLD BLOOD DONOR DAY (14TH JUNE 2022)



FIFTH CONVOCATION (27TH JUNE 2022)



International Day of Yoga- 2022

14 DAYS OF YOGA SESSION

Date: 1st June' 22 to 14th June' 22.
Time: 6:30 AM to 7:30 AM
Venue: Online Mode
Link- <https://meet.google.com/ffw-bqcr-sno>

organised by
National Institute of Technology Mizoram

International Day of Yoga- 2022



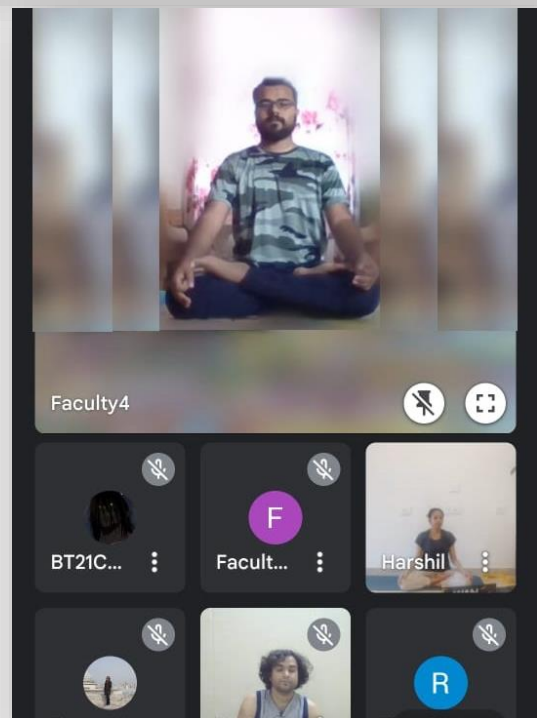

One day Webinar

On
Importance of Yoga & Ayurveda

Date: 11-06-2022
Time: 4 pm onwards
Venue: Online mode
Link: <https://meet.google.com/ffw-bqcr-sno>

Speaker:
Dr. Kavitha B. M
Ayurveda & Yoga Consultant
Ayur-central, Bengaluru

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॥ योगं कर्मसु कौशलम् ॥

(YOGA IS EXCELLENCE IN ACTION)