NATIONAL INSTITUTE OF MANIPUR
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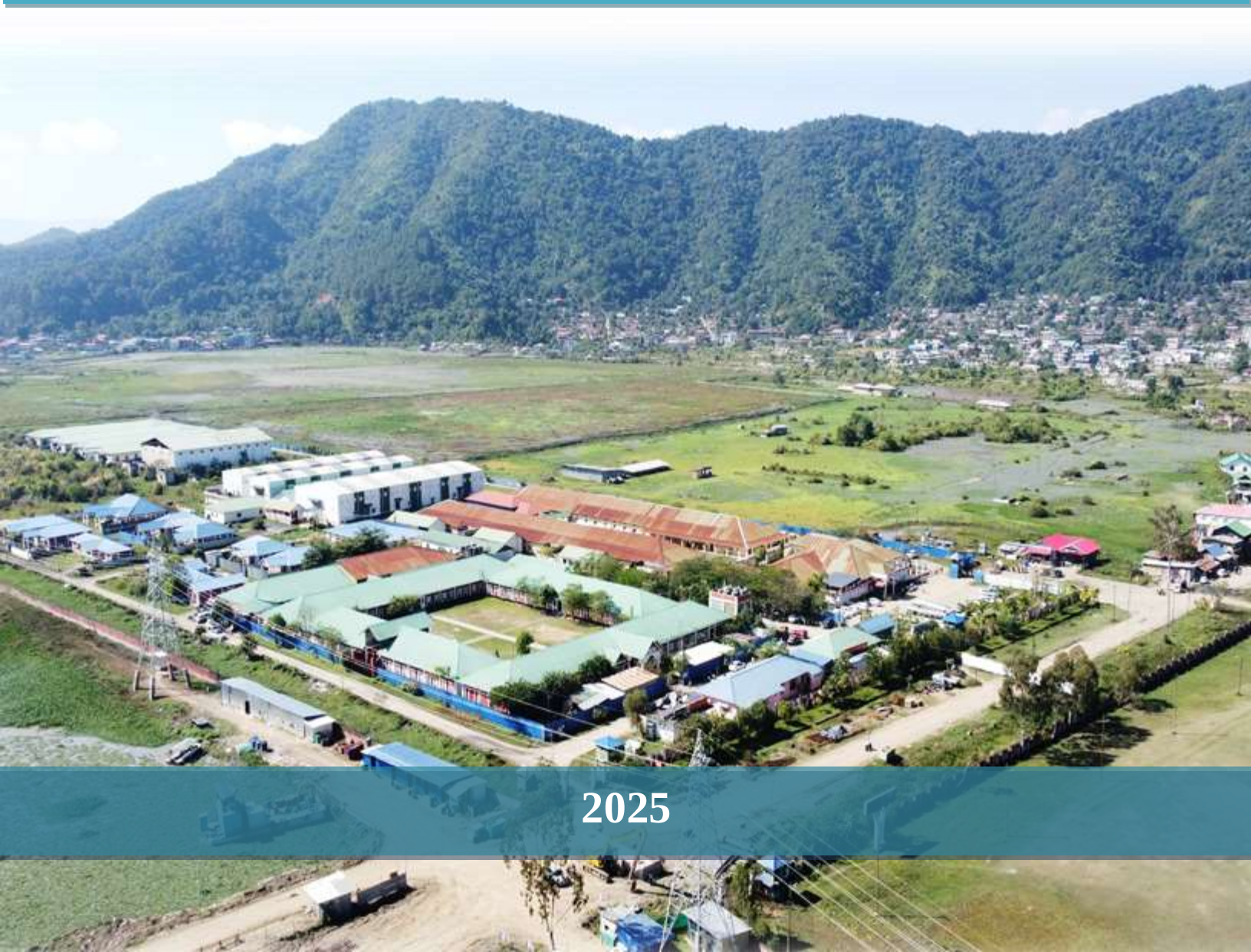
THE REPORTAGE

(NIT Manipur *News Letter)*

JULY TO SEPTEMBER 2025



2025

Director's Message

It gives me immense pleasure to present the July–September 2025 issue of the NIT Manipur Newsletter, which highlights the vibrant academic, research, and outreach activities of our institute during this quarter.

This period has been marked by notable academic and research accomplishments. Our faculty members have made commendable contributions through high-quality publications, funded research projects, invited lectures, editorial responsibilities, and participation in national and international conferences. The successful organization of workshops, faculty development programmes, and training initiatives reflects our continued commitment to academic excellence, innovation, and capacity building.

I am equally pleased to note the institute's strong emphasis on health, social responsibility, and community engagement. Initiatives such as the **one-day free eye check-up camp, the National Tuberculosis (TB) Elimination Programme awareness and screening, and the Swachhata Hi Seva 2025 campaign** demonstrate our dedication to promoting well-being, cleanliness, and public health awareness within and beyond the campus.

The quarter also witnessed several landmark institutional and national events. The **12th Annual Convocation of NIT Manipur**, graced by the Hon'ble Governor of Manipur, was a proud and memorable occasion celebrating the academic achievements of our graduating students and reaffirming our commitment to nurturing future leaders. Observances such as Independence Day, Hindi Diwas, HarGharTiranga, and the Students Induction Programme further strengthened our sense of unity, cultural pride, and national responsibility.

I take great pride in the achievements of our students, who have excelled in academics, research, conferences, sports, and co-curricular activities at national and international platforms. Their dedication and enthusiasm reflect the vibrant academic culture of NIT Manipur.

I sincerely appreciate the collective efforts of our faculty members, staff, students, and administrators for their unwavering commitment to the institute's growth and excellence. Let us continue to work together with integrity, innovation, and social responsibility as we strive to position NIT Manipur as a leading institution contributing to nation-building and the vision of **Vikasit Bharat at 2047**.

I wish the readers an enriching experience with this issue of the newsletter and look forward to many more achievements in the coming months.

Prof. D. V. L. N. Somayajulu
Director

Editorial Board:

1	**Chief Editor:**	**Prof. Aheibam Dinamani Singh** **Dean (R&C)** **Electronics and Communication Engineering**

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Information for Institute Newsletter (July to September 2025)

1 Workshop / FDP / Training conducted

1. Title: Two Day Pedagogy & Orientation Workshop (AY 2025 – 2026) on Capacity Building Program on Design & Entrepreneurship (CBDE), Funding agency- Ministry of Education, Date of Workshop:7th – 8th August, 2025. Dr. W. Vandana Devi.

2. Recent Advances in Materials and Design – 2025 (RAMD-2025) Convener: Dr. Prabhat Kumar. Coordinator: Dr. Moirangthem Dinachandra.

   The workshop "Recent Advances in Materials and Design – 2025 (RAMD-2025)" was organized by the Department of Mechanical Engineering, NIT Manipur during 14th July 2025 – 18th July 2025.This workshop focused on the exciting frontiers of materials and design. It explored cutting-edge breakthroughs in innovative materials and the evolving methodologies that shape modern design. From advanced composites to smart structures, it uncovered how these developments are transforming engineering and scientific research. The workshop also aimed to deepen our understanding of how new materials and design strategies can be applied across disciplines from aerospace to biomedical engineering, enhancing performance, sustainability, and innovation. Faculty members from IIT Kharagpur, IIITDM Kancheepuram, VNIT Nagpur, IIT Delhi, KTH Royal Institute of Technology, Sweden, SVNIT Surat, BITS Pilani - Goa Campus, NIT Manipur and MANIT Allahabad have delivered talks on different topics such as micromechanical behavior of metallic alloys, Phase field fracture modeling of hydrogen embrittlement, etc. There were 64 participants from different institutes in this workshop.

2 Achievement of Faculty Members and Staff

Awards:

1. Dr. Mrinal Bhowmik received Best Paper Award – "Fuzzy-Based Multi-Objective Optimisation for Direct Injection Engine Using Thumba–Neem Biodiesel–Ethanol Blends" at ICSPER 2025, organised by NIT Srinagar, J&K, and NIT Warangal, Telangana, July 2025.

2. Dr. Mrinal Bhowmik serving as Editorial Board Member for Scientific Reports (Nature Portfolio) and Frontiers in Thermal Engineering [2025–Present].

3. Dr. Mrinal Bhowmik serving as Editorial Board Member, Transport, Mobility & Society (AG Editor - Argentina) [2025–Present].

4. Prof. Rajesh Kumar Bhushan listed among the Top 2% Scientist in The World for year-2025 released by Stanford University, California, and Elsevier BV.

Lecture / Keynote speech delivered / Invited Speakers

1. Dr. Prabhat Kumar delivered a lecture on "Preparation of Research Proposal: Research Application, Fundings, & Source of Grant", 5 days ISTE approved Short Term Training Program on Research Methodology and Quality Research from 8th Sept to 12th Sept 2025 in ME Department, KJ College Engineering & Management Research.

2. Dr. Prabhat Kumar delivered a lecture on "Design and modelling of a faulty rotor supported by active magnetic bearings", 5 days' Workshop on Recent Advances in Materials and Design from 14th July to 18th July 2025 in ME Department, NIT Manipur.

3. Dr. Mrinal Bhowmik delivered an invited lecture on "Optimization Techniques in Thermal Systems: From Fundamentals to Advanced Applications", Two-Week Online Refresher Course on Optimization Tools for Engineering Applications, organized by Jawaharlal Nehru Technological University Hyderabad, 28th July 2025.

4. Dr.Anil Kumar Birru delivered an invited talk on "Advancing Biomedical Innovation through Additive Manufacturing: High-Performance PLA/$MgTiO_3$ Composite Filaments for 3D-Printed Scaffolds.", at 3rd International Conference on Advances in Minerals, Metals, Materials, Manufacturing and Modelling (ICAM5–2025), scheduled from 25th to27th September 2025, as part of the Diamond Jubilee celebrations of the Department of Metallurgical and Materials Engineering, NIT Warangal.

5. Dr. Sunil Panday, Associate Professor(Mathematics), delivered an invited talk entitled "Advanced Multipoint Iterative Schemes with and without Memory for Solving Nonlinear Equations" at 3rd International Conference on Computational Applied Sciences and Its Applications (ICCASA-2025) organized by the Department of Basic Sciences, University of Engineering & Management, Jaipur, held on September 20-21, 2025.

Conferences Attended

1. **Dr. Mrinal Bhowmik** attended "Fuzzy-Based Multi-Objective Optimization for Direct Injection Engine Using Thumba–Neem Biodiesel–Ethanol Blends", presented and attended at 2nd International Conference on Sustainable Power and Energy Research (ICSPER 2025), July 11–12, 2025, organized by NIT Srinagar, J&K, and NIT Warangal, Telangana.

2. **Dr. Aakash Singh**, IEEE 5th International Conference on Sustainable Energy and Future Electric Transportation (SEFET), MNIT Jaipur, India.

3. Nikesh Nongthombam,**Shuma Adhikari,** Laishram Khumanleima, "Comprehensive Analysis and Simulation of a Grid Integrated Bidirectional PV System with Battery", North-East India International Energy Conversion Conference and Exhibition (NE-IECCE), IEEE, NIT Silchar , India

4. Naorem Rudra, **SorokhaibamNilakanta Meitei**, and Saxena, "Speed and Torque Control Analysis of PMSM Motors Using a Fuzzy Logic-Based PID Controller". IEEE North-East India International Energy Conversion Conference and Exhibition (NE-IECCE) (pp. 1-6). IEEE.

5. M. S. A. Sheikh and **M. K. Mishra**, "A Coordinated Energy Management Control Scheme for a Grid-Integrated PV Hybrid Storage System," 2025 IEEE North-East India International Energy Conversion Conference and Exhibition (NE-IECCE), Silchar, India, 2025, pp. 1-5, doi: 10.1109/NE-IECCE64154.2025.11182790.

6. M. Takhellambam and **M. K. Mishra**, "A Radial Basis Function Neural Network-Based Fault Detection Scheme for a Microgrid System," 2025 IEEE North-East India International Energy Conversion Conference and Exhibition (NE-IECCE), Silchar, India, 2025, pp. 1-6.

7. **M. K. Mishra** "An Adaptive Compensation Strategy for Concurrent Current Harmonic Suppression and Power Ripple Mitigation for Grid-Tied Solar PV System" Accepted for

publication in IEEE ETFG 2025.

8. **M. K. Mishra** and A. singh"A Frequency Adaptive Control Scheme for Simultaneous Mitigation of Current Harmonics and Power Oscillations in Grid Tied SPV Systems Under Adverse Grid Voltages" accepted for publications in IEEE 5th International Conference on Sustainable Energy and Future Electric Transportation (SEFET), MNIT Jaipur, India.

9. A. singh and **M. K. Mishra** "New High-Gain dc-dc Converter for 800 V Fuel Cell Electric Vehicles"accepted for publications in IEEE 5th International Conference on Sustainable Energy and Future Electric Transportation (SEFET), MNIT Jaipur, India.

10. A. K. Irungbam, K. Kumar and **B. A. Shimray**, "Analysis of Coupled Inductor Based Full Bridge Dual Active Bridge Isolated Converter for Electric Vehicle Charging," 2025 IEEE North-East India International Energy Conversion Conference and Exhibition (NE-IECCE), Silchar, India, 2025, pp. 1-6, doi: 10.1109/NE-IECCE64154.2025.11183384.

11. Dr. K. Somorjit Singh, Assistant Professor (Mathematics), attended Two Day Pedagogy & Orientation Workshop on Capacity Building Program on Design & Entrepreneurship (CBDE), held on 7th -8th August, 2025, Organized by National Institute of Technology Manipur, In coordination with Indian Institute of Information Technology Design & Manufacturing (IITD&M)

3 Achievement of Students

Conferences Attended

1. Thangjam Seemashwori Devi and Prabhat Kumar; "Mathematical Modelling and Vibrational Analysis of an Unbalanced and Misaligned Magnetically Levitated Coupled Rotor System"; 16th International Conference on Vibration Problems (ICOVP-2025) & 11th International Conference on Wave Mechanics and Vibrations (WMVC-2025); 2nd-5th Sept 2025; NOVA School of Science and Technology, Lisbon, Portugal.

2. Lal Mukherjee,3rd Sem EE student won silver medal in Men's Swimming 50M event at Inter NIT Sports Meet held at NIT Rourkela.

3. Naorem Rudra, M. S. A. Sheikh, M. Takhellambam, A. K. Irungbam attended 2025 IEEE North-East India International Energy Conversion Conference and Exhibition (NE-IECCE).

4. Amit Samaddar presented the paper "Cosmological dynamics in f(Q,C) gravity: An analytical and observational approach" in the International Conference on Astroparticle Physics, Gravitation and Cosmology (APGC 2025) with joint collaboration of the GLA University, Mathura, India, Department of Physics, K. L. S. College, Nawada India, School of Physics, Damghan University, Damghan, Iran, & ARSD College, New Delhi, India held during July 26-28, 2025 in hybrid mode.

5. ShivangiRathore presented the paper "Theoretical Analysis of LRS Bianchi Type – 1 cosmological model in f(T) gravity" in the International Conference on Astroparticle Physics, Gravitation and Cosmology (APGC 2025) with joint collaboration of the GLA University, Mathura, India, Department of Physics, K. L. S. College, Nawada India, School of Physics, Damghan University, Damghan, Iran, & ARSD College, New Delhi, India held during July 26-28, 2025 in hybrid mode.

6. ElangbamChingkheingambaMeetei presented the paper “Phase space analysis of cosmological models on f(R,G,T) gravity in the International Conference on Astroparticle Physics, Gravitation and Cosmology (APGC 2025) with joint collaboration of the GLA University, Mathura, India, Department of Physics, K. L. S. College, Nawada India, School of Physics, Damghan University, Damghan, Iran, & ARSD College, New Delhi, India held during July 26-28, 2025 in hybrid mode.

7. Meghanil Sinha presented the paper “ Agravastar model with Durgapal – Fuloria metric potential “ at the International Conference on Frontiers in Science: An Integrative Approach in Solving Global Challenges (ICFS -2025) held during 10th and 11th September 2025 in hybrid mode, organized by Krishnanagar Government College, West Bengal, India.

8. Shubham Kumar Mittal presented the paper “A Parametric Iterative Method For Nonlinear Systems With Convergence Analysis, Stability Via Basins Of Attraction, And Applications to Bvps And Integral Equations” in the 11th International Conference and 27th Annual Conference on Gwalior Academy of Mathematical Sciences on Mathematical Modelling Simulation and Computational Methods (ICGAMS-2K25) held during 25th – 27th September 2025, organized by Department of Mathematics, Bioinformatics and Computer Applications Maulana Azad National Institute of Technology Bhopal, India.

9. OinamThoungamba presented the paper “Locally Convergent Fourth-Order Optimal Iterative Method For Nonlinear Equations” in the 11th International Conference and 27th Annual Conference on Gwalior Academy of Mathematical Sciences on Mathematical Modelling Simulation and Computational Methods (ICGAMS-2K25) held during 25th – 27th September 2025, organized by Department of Mathematics, Bioinformatics and Computer Applications,Maulana Azad National Institute of Technology Bhopal, India.

10. ThokchomBudhachandra Singh presented the paper “An Optimal Fourth-Order Memoryless Iterative Method For Solving Nonlinear Equations” in the 11th International Conference and 27th Annual Conference on Gwalior Academy of Mathematical Sciences on Mathematical Modelling Simulation and Computational Methods (ICGAMS-2K25) held during 25th – 27th September 2025, organized by Department of Mathematics, Bioinformatics and Computer Applications,Maulana Azad National Institute of Technology Bhopal, India.

Workshop / FDP / Training Attended

1. Bidesha Rani Dey, M.Sc. (Mathematics and Computing) Student, Department of Mathematics, has participated and completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on "Next-Gen Computing: From Mathematical Models to AI in Computer Vision organised by National Institute of Technology Hamirpur from 15/09/2025 to 20/09/2025.

2. Nishant Kumar, M.Sc. (Mathematics and Computing) Student, Department of Mathematics, has participated and completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on "Next-Gen Computing: From Mathematical Models to AI in Computer Vision organised by National Institute of Technology Hamirpur from 15/09/2025 to 20/09/2025.

3. Abhishek Pratap, M.Sc. (Mathematics and Computing) Student, Department of Mathematics, has participated and completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on "Next-Gen Computing: From Mathematical Models to AI in Computer Vision organised by National Institute of Technology Hamirpur from 15/09/2025 to 20/09/2025.

4. Simple, M.Sc. (Mathematics and Computing) Student, Department of Mathematics, has participated and completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on "Next-Gen Computing: From Mathematical Models to AI in Computer Vision organised by National Institute of Technology Hamirpur from 15/09/2025 to 20/09/2025.

5. Swati Pandey, M.Sc. (Mathematics and Computing) Student, Department of Mathematics, has participated and completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on "Next-Gen Computing: From Mathematical Models to AI in Computer Vision organised by National Institute of Technology Hamirpur from 15/09/2025 to 20/09/2025.

4 List of Funded Project Sanctioned

SL. NO	TITLE	FUNDING AGENCY	PI & CO PI	AMOUNT
1	"SECURE IOT BASED SMART FARMING SYSTEM"	DST MANIPUR	PI-DR. MANOJ KUMAR	1.25 LAKHS
2	"A SECURE AND USER FRIENDLY ONLINE VOTING SYSTEM USING FACE AND LIVELINESS DETECTION"	DST MANIPUR	PI-DR. W. VANDANA DEVI	1.25 LAKHS
3	DEVELOPMENT AND TESTING OF A NOVEL TECHNIQUE FOR IDENTIFICATION OF UNBALANCE, MISALIGNMENT AND ACTIVE MAGNETIC BEARING PARAMETERS IN MAGNETICALLY LEVITATED ROTOR SYSTEM	DRDO, AR&DB	PI-DR. PRABHAT KUMAR, CO-PI- PROF. RAJIV TIWARI (ME, IIT GUWAHATI), DR. MANASH KUMAR MISHRA (EE, NIT MANIPUR)	66 LAKHS
4	DEVELOPMENT OF MHEALTH SOLUTION IN REMOTE TRIBAL AREAS OF MANIPUR THROUGH A CUSTOMIZED MOBILE SOLUTION	IBITF, IIT BHILAI	P.I. DR. BENJAMIN A. SHIMRAY	40.34 LAKHS
5	SMART ENERGY METER WITH IOT CAPABILITIES AND LOCALIZED POWER CONDITIONING	MIETY	CO-PI DR. BENJAMIN A. SHIMRAY	109.50 LAKHS
6.	DEVELOPMENT AND TESTING OF A NOVEL TECHNIQUE FOR IDENTIFICATION UNBALANCE, MISALIGNMENT ACTIVE AND	DEFENCE RESEARCH & DEVELOPMENT ORGANIZATION (DRDO)	CO-PI DR. MANASH KUMAR MISHRA	66 LAKHS

	MAGNETIC BEARING PARAMETERS IN A MAGNETICALLY	LEVITATED ROTOR SYSTEM		

5 Research Publications

1. Bimoljit Chanam, **Aheibam Dinamani Singh**, and Biraj Shougaijam, "Development of High-Performance Ultraviolet Photodetector Based on Vertically Aligned WO3 Nanowires" IEEE Transactions On Electron Devices, pp. 3630-3637, VOL. 72, NO. 7, JULY 2025.

2. Ringchamdinliu Ngaomei, **Manoj Kumar**"FPGA implementation of low power and automatic traffic light control system",AIP Conference Proceedings, Vol.3298, 030002, July9, 2025. DOI:10.1063/5.0279313.

3. **A. Baranwal,** S. D. Roy, and S. Kundu, Secrecy and reliability performance of an energy-harvesting-enabled two-user NOMA system, ETRI Journal 47 (2025), 771–785,DOI 10.4218/etrij.2023-0384.

4. Prerna Rana, **Ashish Ranjan**, J Vista, Alak Majumder "A minimal memristor emulator using DVCCTA for analog neuromorphic logic" Volume 201, july29,2025. https://doi.org/10.1016/j.aeue.2025.155966

5. Vivek Bhatt, **Ashish Ranjan "**An Implementation of Chua's Circuit Employing Four-Terminal-Floating-Nullor (FTFN)" july23,2025. https://doi.org/10.1007/978-981-96-3758-4_22

6. Paul V Milner, Philips Zachariah, Jijo Francis, Siji George, Adarsh V Parekkattil, Suni Jose, S Athithya, Caren Babu, Binoy Johnson, **Loitongbam Surajkumar Singh**, Shuma Adhikari "5. Paul V Milner, Philips Zachariah, Jijo Francis, Siji George, Adarsh V Parekkattil, Suni Jose, S Athithya, Caren Babu, Binoy Johnson, **Loitongbam Surajkumar Singh,** Shuma Adhikari "Top of FormBottom of FormA Multifunctional, Embedded-based, Bluetooth-enabled, Programmable, Biphasic-waveform Stimulator with Real-time Neural Signal Acquisition" September19, 2025, DOI: 10.3791/68837 .

7. Simon Tongbram, Benjamin A Shimray, **Loitongbam Surajkumar Singh "**A novel UNet-SegNet and vision transformer architectures for efficient segmentation and classification in medical imaging" july8 2025, Volume 48, pages 1023–1055, (2025), https://doi.org/10.1007/s13246-025-01564-8

8. Simon Tongbram, Benjamin A Shimray, **Loitongbam Surajkumar Singh "**Enhanced Swarm-Based Fuzzy Clustering with Cluster Recognition Strategy for Efficient Segmentation of Monochromatic Images" july2 2025 https://doi.org/10.1016/j.sasc.2025.200344

9. Manoj Sarkar Zonunmawii, **L Lolit Kumar Singh**, Sudipta Chattopadhyay, Abhijyoti Ghosh "Enrichment of Impedance Bandwidth" 26 september 2025.

10. Mohd. Rakimuddin Khan, Huirem Neeranjan Singh, Wangkhem Robinson Singh, "Sustainable biodiesel synthesis using bamboo leaves ash doped with Ansercygnoideseggshell derived CaO (BLA@SiO_2-CaO) green catalyst: Characterization and optimization study", Biomass and Bioenergy, pp: 107815, Vol. 198, Jul. 2025. DOI: https://doi.org/10.1016/j.biombioe.2025.107815.

11. Petta, Avinash, and SabindraKachhap. "Effectiveness of pista shell filler content and injection molding parameters on characteristics of PLA based green composites." Journal of Thermoplastic Composite Materials (2025): 08927057251382837. https://doi.org/10.1177/08927057251382837.

12. Abishek, M. S., SabindraKachhap, and Tikendra Nath Verma. "Impact of Guizotiaabyssinica (L.) biodiesel on performance and emission of a compression ignition engine: MS Abishek et al." Journal of Thermal Analysis and Calorimetry (2025): 1-22 https://doi.org/10.1007/s10973-025-14650-6.

13. Kumar, Dhirendra, and SabindraKachhap. "Influence of divergent bio-diesels on engine characteristics: A numerical approach." Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering (2025): 09544089251355023. https://doi.org/10.1177/09544089251355023.

14. Pulluru, S.K., Sharma, F., Anil Kumar Birru, A.K. et al. Influence of Composition of Cr-SiC-Carbon Nanotube Powder Mixture on Corrosion and Tribological Performance of AA7075 through Laser Surface Alloying. J. of Materi Eng and Perform (2025). https://doi.org/10.1007/s11665-025-11723-3 (SCIE).

15. V. K. Saxena, K. Kumar and **B. A. Shimray**, "Efficiency Enhancement and EMI Mitigation in GaNHEMTs Using a Single-Switch Resonant Gate Driver Circuit," in IEEE Transactions on Consumer Electronics, doi: 10.1109/TCE.2025.3597551.

16. Tongbram, S., **Shimray, B.A**. & Singh, L.S. A novel UNet-SegNet and vision transformer architectures for efficient segmentation and classification in medical imaging. Phys Eng Sci Med**48**, 1023–1055 (2025). https://doi.org/10.1007/s13246-025-01564-8.

17. NirmalkumarSingha, BarchandChanam, “A remark and improved version on recent result concerning rational functions.”, Ural mathematical journal, pp: 124- 131, Vol. XI, No. 1, July. 2025. DOI: 10:15826/umj.2025.1.009.

18. NirmalkumarSingha, F.G. Abdullayev, BarchandChanam, “Integral extensions on growth and higher derivatives of a polynomial.”, Turkish Journal Of Mathematics, pp: 419- 517, Vol. 49, No. 4, July. 2025. DOI: 10:55730/1300-0098.3603.

19. Meghanil Sinha, S. Surendra Singh, “A gravastar model with Durgapal—Fuloria metric potential “, Annals of Physics, 170129, Vol. 480, September 2025, https://doi.org/10.1016/j.aop.2025.170129.

20. M. Sinha, S. S. Singh. “Strange Quark Stars with Kuchowicz Metric Function in Modified Gravitational Theory”. International Journal of Theoretical Physics, 64, 197, July 2025. https://doi.org/10.1007/s10773-025-06069-4.

21. Meghanil Sinha, S. Surendra Singh. “Cylindrical gravastars with Kuchowicz metric potential “. International Journal of Modern Physics A. 2550129, 40, 28, 2025. https://doi. 10.1142/S0217751X25501295.

22. Meghanil Sinha, S. Surendra Singh, “Durgapal-Fuloria Bose-Einstein condensate stars within f(R,T) gravity theory “, Journal of High Energy Astrophysics, 50, 100486. https://doi.org/10.1016/j.jheap.2025.100486.

23. Mahesh Kumar, S. Surendra Singh,Meghanil Sinha,"Javlon Rayimbaev,Inomjon Ibragimov. Buchdahlgravastars". J. Korean Phys. Soc. (2025).https://doi.org/10.1007/s40042-025-01493-5.

24. A. Samaddar, & S. S. Singh. "Constraining Horˇava–Lifshitz gravity with late-time cosmology". Physics of the Dark Universe, 49, 102030. https://doi.org/10.1016/j.dark.2025.102030.

25. A. Samaddar, & S. S. Singh. "Observational and stability analysis of viscosity-driven cosmic acceleration in f(Q,C) gravity". High Energy Density Physics, 56, 101216. https://doi.org/10.1016/j.hedp.2025.101216.

26. A. Samaddar, & S. S. Singh. "Exploring the Dynamics of Dark Energy in f(Q,C) Gravity: A Comprehensive Analysis Using Cosmological Datasets". Astron. Lett. 51, 49–64 (2025). https://doi.org/10.1134/S1063773725700203.

27. A. Samaddar, & S. S. Singh. "Observational viability of generalized Chaplygin gas in f(Q,Lm)Gravity". Astrophys Space Sci 370, 92 (2025). https://doi.org/10.1007/s10509-025-04483-y.

28. A. Samaddar, & S. S. Singh. "Reconstructing cosmic expansion in f(R,G) gravity using a log-periodic deceleration model". Physics of the Dark Universe, 50, 102081. https://doi.org/10.1016/j.dark.2025.102081.

29. Deep Chand, YumnamRohen, SanasamSurendra Singh and NaeemSaleem. "Fixed point and common fixed point theorems for Pata-Type contractions in b-metric spaces". Journal of non-linear and convex analysis. 2563-2582, Volume 26, Number 8, 2025.

30. K. H. Alam, Y.Rohen&S. S. Singh, S.S"Analysis of a refined iterative method with a new setting and applications to various models of partial differential equations". Numerical Algorithms (2025). https://doi.org/10.1007/s11075-025-02159-w.

31. Bharat Singh, S. Surendra Singh., "Dynamical system techniques for stability analysis in f(Q) gravity.", The Aligarh Bulletin of Mathematics Vol. 44, No. 1, (2025), 1- 28.

32. Amit Samaddar and S. Surendra Singh, "Barrow Holographic Dark Energy in f (Q,Lm) gravity: A dynamical system perspective", International Journal of Geometric Methods in Modern Physics, (2025) 2550300 (38 pages)https://doi.org/10.1142/S0219887825503001.

33. Qureshi, S., Argyros, I. K., Ramos, H., Soomro, A., Nizamani, P., Thangkhenpau, G., &Panday, S. (2025). "A stable optimal solver for nonlinear equations with semilocal convergence using majorizing sequences in banach spaces" SeMA Journal, 1-35.Doi: https://doi.org/10.1007/s40324-025-00402-x.

6 Any other information

1. Dr. Prabhat Kumar visited Manipur Technical University, Imphal on 9th July 2025 as an External examiner for B. Tech Practical End sem examination for Computational Method and Programming Lab.

2. Dr. Prabhat Kumar became Reviewer of Mechanical Systems and Signal Processing (Publisher-Elsevier, Impact Factor of 8.9) and IEEE Transactions on Energy Conversion

(Publisher-IEEE, Impact Factor of 5.4).

3. Dr. Mrinal Bhowmik is the reviewer for more than 25 international journals including Applied Thermal Engineering, Energy Conversion and Management, and Journal of Cleaner Production.

4. Dr. Shahnawaz Ahmed attended a training workshop on “Data Analytics and Artificial Intelligence for Smart Manufacturing”, organized by New Age Makers' Institute of Technology (NAMTECH) at IIT Gandhinagar campus from 4th to 8th August 2025.

5. Dr. SabindraKachhap participated in the two weeks Faculty Development Program on “AI and Machine Learning in Smart & Advanced Materials for Next- Gen Electronics and Sustainable Energy Technology” jointly organized by Electronics and ICT Academy, NIT Patna and RKDF University Bhopal under the “Scheme of financial assistance for setting up of Electronics and ICT Academies (Phase-II)” by the Ministry of Electronics and Information Technology (MeitY), Government of India from 04th August, 2025–14th August, 2025.

6. Prof. Rajesh Kumar Bhushan attended a course on “Python Programming for Engineering Applications” from 28th July to 08th Aug 2025.

7. Prof. Rajesh Kumar Bhushan attend a training workshop on “Advanced Drone (Air Taxi)” on 31th Aug 2025.

8. Prof. Rajesh Kumar Bhushan attend a training workshop on “Aircraft Design Technology” on 14th September 2025.

9. One Research Paper is accepted on 4th September 2025,A.K.Sarmah, K.S. Singh; Involutions on Wall Manifolds, Filomat 39(2025), 10411-10417, DOI: 10.2298/FIL2529411S(SCIE).

NATIONAL TUBERCULOSIS (TB) ELIMINATION PROGRAM

Friday,22 August,2025

On August 22, 2025, a one-day lecture and screening session on the National Tuberculosis (TB) Elimination Program was successfully organized at the National Institute of Technology Manipur, in collaboration with the State TB Unit, Intermediate Reference Laboratory (IRL), and District TB Center, Imphal West.

The event aimed to raise awareness among students, faculty, and staff about the importance of early detection, prevention, and treatment of TB as part of India's goal to eliminate the disease by 2025. A total of 35 members participated in the program, which included an informative lecture by medical experts from the District TB Unit, followed by an engaging interactive session. A free TB screening camp was also conducted, offering voluntary testing and counselling for the attendees. The initiative played a vital role in sensitizing the academic community and promoting public health consciousness within the NIT

STUDENTS' INDUCTION PROGRAMME

Tuesday, 26 August, 2025

Welcoming our new batch of students for the 2025–26 session marks the beginning of an exciting academic journey and a new chapter in the life of our institution. This moment brings fresh ideas, diverse talents, and renewed energy to the campus, strengthening our shared commitment to learning, innovation, and holistic growth.

The Students' Induction Program will help the new batch feel at home, understand the institute's culture and values, and build meaningful connections with peers and faculty from day one. With guidance, support, and active participation in academics, co-curricular and community activities, the 2025–26 cohort is poised to shape a vibrant, responsible, and future-ready campus community.

STUDENTS' INDUCTION PROGRAM

Saturday, 30 August ,2025

KANGLA

SHREE BIJOY GOVINDAJEETEMPLE

Thursday 4, September, 2025

ONE-DAYFREE EYE CHECK-UP CAMP

Regular eye check-up help detect vision problems early, so students do not struggle with reading the board, books, or screens in class. Good eye health reduces headaches, eye strain, and fatigue, which improves concentration and overall academic performance. Early detection of issues like refractive errors, squint, or lazy eye prevents long-term complications and permanent vision loss. Eye exams also guide safe screen use habits and proper lighting, which are critical as students spend more time on digital devices. Overall, routine check-up promote lifelong eye care awareness and support students' physical, mental, and learning well-being.

On September 4th, 2025, NIT Manipur partnered with Medilane Foundation to host a one-day free eye check-up camp for students, faculty, and staff. The purpose was to identify and address vision problems and eye strain. A team of seven from Medilane Foundation, along with staff from the institute's Health and Wellness Centre, screened 133 participants (90 students and 43 staff). Attendees received guidance on corrective measures and gained awareness of the importance of eye health and the benefits of early detection.

Hindi Diwas

Monday, 15 September, 2025

The Hindi Diwas celebration involves active participation from all sections of the college community. The Director, Registrar, teaching staff, non-teaching staff, and students all come together to observe this day. The Director and Registrar often inaugurate the event and deliver speeches emphasizing the importance of Hindi.This collective involvement underscores the unity and cultural pride associated with Hindi Diwas at NIT Manipur.

Hindi Diwas holds national importance in India as it commemorates the adoption of Hindi as an official language on September 14, 1949, by the Constituent Assembly, promoting unity across diverse linguistic regions. It fosters national integration by serving as a link language that bridges cultural gaps, reinforces national identity, and preserves India's rich linguistic heritage amid over 600 million speakers.

HAR GHAR TIRANGA

Tuesday,12 August, 2025

On 12th August 2025, NIT Manipur proudly participated in the Har Ghar Tiranga campaign, promoting patriotism and national pride among the academic community. The event was led by Director Prof. DVLN Somayajulu, Registrar Kh.Tomba, along with faculty members, non-teaching staff, and students of the institute.

TODAY IS A DAY TO FEEL PROUD OF BEING A PART OF THIS GREAT NATION. MAY THIS SPIRIT OF FREEDOM LEADS US ALL TO SUCCESS AND GLORY LIFE. HAR GHAR TIRANGA AZADI KA AMRIT MAHOTSAV

12th ANNUAL CONVOCATION

Friday, 26 September, 2025

Governor of Manipur graced the 12th Convocation of NIT Manipur at City Convention Centre, Imphal. He congratulated the graduates, lauded NIT Manipur's strides in science & technology, and urged the youth to uphold values, embrace innovation, and contribute to building a IN Vikasit Bharat@2047.

He reminded students that their knowledge and skills must align with the nation's mission of becoming a global leader in technology, sustainability, and inclusive growth.

Convocation ceremonies encourage students by celebrating their academic achievements with formal recognition, boosting confidence through public acknowledgment, and providing a sense of closure to their educational journey, motivating them for future endeavors. They inspire ambition via keynote speeches from dignitaries and alumni sharing success stories, fostering a sense of belonging and pride in institutional legacy. These events also promote lifelong learning by highlighting alumni networks and opportunities for advanced studies or careers.

As NIT Manipur graduates, your future beckons with endless possibilities in innovation and leadership.

Embrace challenges as fellow students, turning knowledge into groundbreaking solutions for society.

From this college legacy, carry forward resilience to shape a brighter India tomorrow.

Step boldly-your achievements will redefine excellence for generations ahead.

SWACHHTA HI SEVA

CLEANLINESS IS SERVICE

SWACHHTA HI SEVA 2025' campaign at NIT Manipur. Swachh Bharat Mission - Urban Swachh Bharat Ministry of Housing and Urban Affairs.

September 2025

A CLEANER PLACE TODAY MEANS A SAFER FUTURE TOMORROW

NIT MANIPUR INDEPENDENCE DAY CELEBRATION

Sunday, 7 December,2025

79TH INDEPENDENCE DAY

India's 79th Independence Day marks 79 years since the nation broke free from British colonial rule on 15 August 1947, a turning point that transformed India into a sovereign, democratic republic. In 2025, this day is being celebrated with the theme of building a "Naya Bharat," highlighting the country's aspirations for inclusive development, innovation, and progress towards a developed nation by 2047.

The 79th Independence Day was celebrated with great enthusiasm and patriotism at the National Institute of Technology (NIT) Manipur on 15th August 2025. The event was graced by the presence of Director Prof. D.V.L.N. Somayajulu, Registrar Prof. Kh.Tomba, along with faculty members, non-teaching staff, and students of the institute.

The celebrations began with the hoisting of the National Flag, followed by the singing of the National Anthem. The tricolour was proudly unfurled, symbolizing the spirit of unity, freedom, and progress. Following the flag hoisting ceremony, a flag march was conducted across the campus, underscoring the message of national pride and commitment to upholding the country's integrity.


ADMINISTRATIVE