

The bi-monthly newsletter of NIT, Arunachal Pradesh

## Academic Activities

### INVITED/EXPERT LECTURES GIVEN BY NIT AP MEMBER

1. Prof. Ram Prakash Sharma, Professor, Mechanical Engineering, NITAP delivered an Invited Lecture on **"Fluid Mechanics/Dynamics"** at Manipal University Jaipur, Rajasthan organised by Department of Mechanical Engineering, Manipal University Jaipur, 2025-02-21.



2. Prof. Ram Prakash Sharma, Professor, Mechanical Engineering, NITAP delivered an Invited Lecture on **"Advancing Innovations in Science Teaching and Research Aligned with NEP-2020"** in the Refresher Course in Innovation in Teaching and Research in Science in Accordance to NEP-2020 organised by UGC - Malaviya Mission Teacher Training Centre MMTTC (Formerly named HRDC) University of Rajasthan, Jaipur, 2025-01-28.



3. Dr. Sahadev Roy, Assistant Professor (Grade I), Dept. of ECE, NITAP delivered a Keynote Lecture on **"Application of Artificial Intelligence in Automobile Industry"** in the FDP on "Application of Artificial Intelligence in Electrical, Electronics, and Computer Science" 24th February to 7th March 2025, organised by Sambalpur University Institute of Information Technology, Burla, Odisha.

4. Prof. Ram Prakash Sharma, Professor, Mechanical Engineering, NITAP delivered a Talk on **"National Science Day"** On the Occasion of National Science Day Celebration on Feb 28, 2025 organised by Jagannath University, Jaipur Rajasthan, 2025-02-28.

### VISITS AND INVITED/EXPERT LECTURES TO NITAP FROM OTHER INSITUTES

1. Visit by NSDC and Skill in The Box New Delhi  
NSDC & Skill In The Box, CEO, NSDC & Skill In The Box, NSDC visited and delivered a Keynote regarding importance of skill development and possible partnership with Department of Biotechnology, NIT Arunachal Pradesh, in opening of Certificate course on Cosmetology on **"Certificate Course on Cosmetology"** organised by Biotechnology Department, 2025-02-07.

## PATENT

1. Momin Mukherjee, Prof.(Dr.) Mihir Kumar Shome, Dr. Sahadev Roy, "**Smart Field Data Collection and Processing Equipment for Entrepreneurship and Statistical Analysis**". (2025). 6420033. Intellectual Property Office UK.
2. Dr. Sahadev Roy, Dr. Sudipta Chatterjee et. al, "**Head Movement and Voice Enabled Robotic wheelchair for Physically challenged**" Published . (2025). 202541007290. IP India.

## RESEARCH PAPERS

1. Chatterjee, Sudipta.Majumdar, Angshuman. Roy, Sahadev. (2025). **A New Control Approach for a Multi-Controlled Wheelchair Utilizing Deep Learning Framework and Raspberry Pi**. \*IETE Journal of Research <https://doi.org/10.1080/03772063.2025.2453880> [SCI/SCIE, Q2]
2. Radha , Palpi Boruah.Berlin , Mohanadhas.Jayakesh , Kamalanathan . (2025). **Infuence of Microbially Induced Calcite Precipitation on the Behaviour of SandySilt Soil under Freezing and Thawing Cycles**. Transportation Infrastructure Geotechnology 12(67), 1 - 18.
3. Ahmed, Mohd Nadim .Berlin , Mohanadhas . (2025). Review of the **effect of river vegetation on sediment transport and river morphology and erosion prevention**. ISH Journal of Hydraulic Engineering <https://doi.org/10.1080/09715010.2025.2471362>
4. Das, A..Ghosh, S. .Bisal, P. .Pramanik, N. . (2025). **Doxorubicin (DOX) modified zinc oxide (ZnO) nanocomposite encapsulated with polymethyl methacrylate (PMMA) biopolymer for effective cancer treatment**. Results in Surfaces and Interfaces 18, 100389. <https://doi.org/10.1016/j.rsurfi.2024.100389>
5. Ringu, T. .Das, A. .Ali, M. S..Ghosh, S..Pramanik, N.. (2025). **Fluconazole Functionalized Copper Oxide–Chitosan Nanocomposite for Bioengineering Applications AgainstHuman Breast Cancer Therapies**. Chemistry Select 10, e202402505. <https://doi.org/10.1002/slct.202402505>

6. Chou Walickta Singkai and Utpal Kumar Saha (2025). **A novel numerical approach for solving generalized fractional Fisher's equation**. Physica Scripta 100, 1-15. <https://doi.org/10.1088/1402-4896/ada401>
7. Bikash Gogoi, Utpal Kumar Saha, Bipan Hazarika, Hijaz Ahmad, Dilber Uzun Ozsahin, M. Adel & Maged F. Alotaibi (2025). **Integral Solutions of an Initial Value Problem of Fractional Dynamic Equations on Time Scale**. Fractals 33(2), 1-15. <https://doi.org/10.1142/S0218348X24400620>
8. Chandralekha Mahanta, Ram Prakash Sharma,**Enhanced heat transfer rate analysis with Ohmicheating, and multiple Slips over exponentially stretching/shrinking plate on MHD hybrid nanofluid: response surface methodology**, ZAMM 105 (2) (2025) e202400479. <https://doi.org/10.1002/zamm.202400479>. Q1 HI: 58 IF: 2.3, Publisher- Wiley- VCH Verlag
9. Shekhar, Koj Sambyo, Ram Prakash Sharma, S. R. Mishra, **Predicting nanofluid density in ethylene glycolbased oxide nanoparticles using machine learning approach: GBR–GSO models**, Journal of Thermal Analysis and Calorimetry, (2025)1-18<https://doi.org/10.1007/s10973-024-13928-5>HI: 120, IF: 3.0, Q2, Publisher- Springer Nature
10. Abhishek Sharma and Ram Prakash Sharma, **Statistical and numerical analysis of MHD nanofluid () flow on a nonlinear curved stretching surface with heat source: A RSM approach**. ZAAM. 105, e202400513 (2025).DOI: 10.1002/zamm.202400513 Q1 HI: 58 IF: 2.3, Publisher- Wiley- VCH Verlag
11. Chandralekha Mahanta, Ram Prakash Sharma, **Contrasting analysis of tetra and ternary nanofluid dynamics over linear/exponential stretching sheets with variable thermal conductivity: an RSM approach**, 150(1) (2025) 649-671, Journal of Thermal Analysis and Calorimetry. HI: 120, IF: 3.0, Q2, Publisher- Springer Nature.

12. Ram Prakash Sharma, Kirnu Badak, Umair Khan, Anuar Ishak, El-Sayed M. Sherif, Piotr Wróblewski, **Dynamics of variable thermal conductivity and multiple slip conditions in a Carreau hybrid nanofluid flow past a stretching sheet**, First published: 13 December 2024, ZAMM. <https://doi.org/10.1002/zamm.202400388> Q1 HI: 58 IF: 2.3, Publisher- Wiley- VCH Verlag

13. Laxmipriya swain, Ram Prakash Sharma, S.R.Mishra, **Multi-physics analysis of bioconvection-driven Williamson Ferro-nanofluid flow over a stretching sheet with magnetic field and activation energy**: A numerical study, journal of thermal analysis and calorimetry Q2, HI:120 , I.F-3, Publisher- Springer Nature

14. KirnuBadak, Ram Prakash Sharma& Ibrahim, S.M. **A comprehensive study on Maxwell hybrid nanostructure and Maxwell nanostructure on 2D flow model over a stretching sheet with non-uniform heat generation/absorption and binary chemical reaction**. Journal of Thermal Analysis and Calorimetry 150 (2025) 521-535. <https://doi.org/10.1007/s10973-024-13754-9>, Q2, HI: 120, IF: 3.0, Publisher- Springer Nature

15. Chandrlekha Mahanta, Ram Prakash Sharma, **A nonlinear stratification paradigm for squeezing flow between parallel plates incorporating ternary hybrid nanoparticles with Soret-Dufour effects**. Hybrid Advance 9 (2025) 100413. <https://doi.org/10.1016/j.hybadv.2025.100413>, Publisher-Elsevier

16. J. Madhu, V. Vinay Kumar, Ram Prakash Sharma, B.C. Prasannakumara, ChanderPrakash, **Impact of generation and absorption of heat on the Casson fluid flow due to a co-axial cylinder under the influence of Stefan blowing effect**, Numerical Heat Transfer, Part A: Applications (Accepted). 2025.Q2, HI-81, IF-2.8, Publisher- Taylor & Francis

17. Ram Prakash Sharma, Om Prakash, K. Venkadeshwaran, R. J. Punith Gowda, Karthik K, **Heat and mass transfer analysis due to endothermic/exothermic reactions in induced flow between stationary outer and stretching inner coaxial cylinders: a numerical solution**, Numerical Heat Transfer Part A-Applications. (Accepted) 2025. Q2, HI-81, IF-2.8, Publisher- Taylor & Francis

18. Ram Prakash Sharma, Pudhari Srilatha, Umair Khan, J. K. Madhukesh, Sunendra Shukla, Syed Modassir Hussain, **Scrutinization of nanoparticle aggregation in the reactive dynamics of heat transport phenomenon with buoyancy forces**, ZAMM (Accepted), 2025. Q1 HI: 58 IF: 2.3, Publisher- Wiley- VCH Verlag

## CONFERENCE PAPERS

1. Berlin , Mohanadhas.Jino , Lawrence.Naresh Kumar , Sharma . **Transport Modeling of Microplastic Particles in Fractured Porous Media** [Paper presentation]. International Conference on Advances in Materials, Modeling and Analysis for Sustainable and Resilient Infrastructure , Amrita Vishwa Vidyapeetham, Coimbatore, Tamil Nadu, India , from 2025-01-09 to 2025-01-11.

2. Kumar, A Vanav . **Image generation using Stable Diffusion Model:Techniques and Implementation** [Paper presentation]. International Conference on Applied Probability, Statistics, and Stochastic Processes, ANRF (SERB) AND NBHM Sponsored conference, NIT, Calicut, Kerala, from 2025-01-30 to 2025-02-01.

## REVIEWERS

1. **Dr. Nabakumar Pramanik**, Associate Professor, BAS served as a Reviewer of "Chemistry Select". Wiley publication. 2025-01-21.
2. Dr, Sahadev Roy, Assistant Professor, ECE served as a Reviewer of "**Current Applied Physics**". Elsevier. 2025-03-01.
3. Prof. Ram Prakash Sharma, Professor, Department of Mechanical Engineering served as a Reviewer of "**International Journal of Ambient Energy**". Tylor and Francis. February 2025
4. Prof. Ram Prakash Sharma, Professor, Department of Mechanical Engineering served as a Reviewer of "**Advanced Theory and Simulations**". Wiley- VCH Verlag. January-2025

## AWARDS

5. Prof. Ram Prakash Sharma, Professor, Department of Mechanical Engineering served as a Reviewer of "**Scientific Report**". Springer Nature. January-2025

1. **Dr. Nabakumar Pramanik**, Associate Professor, BAS is ranked at 13,963 out of 129,126 scientists in India, 93,960 out of 685,596 scientists within Asia, and 471,486 out of 2,395,396 scientists in the world, in addition to that, the best scientist in Chemical Sciences and Natural Sciences of AD Scientific Index (Rankings for Scientist), Rankings for World Scientist and University Rankings, 2025

## Faculty Empowerment Program

1. Dr. A Vanav Kumar Associate Professor NITAP attended **National Supercomputing Mission**, Nodal co-ordinators meet at Sinc hotel and IIT Goa was organised by Dr. Jaya Panvalkar, Chairperson, National Supercomputing Mission in collaboration with Mr. Ashish P. Kuvelkar, Scientist F, CDAC, Pune, Prof. Sharad Sinha, Associate Professor, IIT, Goa and Dr. Kumar Saurabh, MEITY, Government of India, on the Planning and implementation of National Supercomputing Mission, MIETY, Government of India, from 2025-02-01 to 2025-02-01

## Outreach Activities

### WINNERS OF ANNUAL SPORTS MEET

**Gymkhana**, NIT Arunachal Pradesh organized "Annual Sport meet 2024-25" from 2025-02-21 to 2025-02-22.

### WORKSHOP / FDP / CONFERENCE / SEMINAR / SHORT TERM COURSE ETC.

1. 5 day Workshop on "**Numerical, Analytical and Machine learning Techniques for Fluid Dynamics**" was organized by Prof. Ram Prakash Sharma, Professor, Department of Mechanical Engineering, National Institute of Technology Arunachal Pradesh, from 2025-02-10 to 2025-02-14.



#### Marathon Race (Boys)

Tashi Gyaltson (EE23B024) -1st Position  
Tezin Phuntso (CS24B027) – 2nd Position  
Jonson Ngi (CS23B018) - 3rd Position

#### Marathon Race (Girls)

Tai Anjuna (EE24B010)-1st Position

#### Javelin Throw (Boys)

Jonson Ngi (CS23B018) -1st Position

#### Javelin Throw (Girls)

Begia Sine (CE24B028) -1st Position



## Football

Department of CSE – The Champions  
Department of CE - The Runner-up



T Nagaraju (ME21B053)- The Runner-up  
Tojum Tasar (CS22B003)  
Syed Nissar (EC21B058)  
VamsiNayak (CS23B015)  
Naveen (EE23B013)



## Cricket

Department of CSE – The Champions  
Department of CE - The Runner-up

## Chess

Anupam Gupta (ME240B005)- The Champion  
Job Gao (CE23B007)- The Runner-up

## Kabbadi

Department of CSE – The Champions  
Department of CE - The Runner-up

## 100 MTR Race (Boys)

Bimal Kumar Barik (BS24D001) - The Champion



## Badminton

Kaling Jorang (CS21B012)- The Champions  
Goutam Singh (CS21B062)  
Dagang Takia (EE22B005)  
MdAzruddin Alam (EC21B036)  
Taba Doria (CS21B064)

## 100 MTR Race (Girls)

Shahnaz Hussain (CS21B051) - The Champion



## Long Jump (Girls)

Riya Yadav (CS24B021) - The Champion

## Long Jump (Boys)

Basu Singh (ME23B003) - The Champion

## High Jump (Boys)

Basu Singh (ME23B003) - The Champion

## High Jump (Girls)

Sagelo Rangmang (CS24B023) - The Champion

### Discuss Throw (Girls)

Debolina Bhattacharya (BT25D001) - The Champion

### Discuss Throw (Boys)

Md. Azruddin Alam (EC21B036) - The Champion

### Shot Put (Girls)

Sagelo Rangmang (CS24B023) - The Champion

### Shot Put (Boys)

Aman Reddy - The Champion

### Javelin Throw (Girls)

Begia Sine (CE24B028) - The Champion

### Javelin Throw (Boys)

Jonson Ngi (CS23B018) - The Champion

### 1. Atulyam Singing Competition Winners

**Valentina Doley**, CSE 4th year, NIT-AP won the First in the Singing Competition on the theme of "Music" organized by Music Club in Atulyam 2024, 2024-08-30

### Republic Day Celebration and Cultural Program



**Prize Distribution Cum Cultural Program was organised by Music & Dance Clubs, Students on the Republic Day, from 2025-01-26 to 2025-01-26.**



### Anemia Mukht Bharat & National Deworming Day

NIT Arunachal Pradesh observed "ANEMIA Mukht BHARAT & NATIONAL DEWORMING DAY" on February 10, 2025. The event was addressed by Prof. Mohan V. Aware, Director of NIT Arunachal Pradesh. Dr. Neyang Nitik (DRCHO) and Dr. Tana Natung (SNO-CH) from the District Health Department also attended. Dr. Tana Natung delivered an informative lecture on the prevention of anemia and the health of adolescent girls.

The District Health Department distributed IFA tablets and sanitary pads to all female students, faculty members, and staff of NIT Arunachal Pradesh. Additionally, a blood screening camp was organized to detect anemia among the female students and the women family members of staff and faculty. A total of 74 students and 44 staff and faculty members participated in the screening.

As part of National Deworming Day, the District Health Department also distributed Albendazole tablets to all students of NIT Arunachal Pradesh, KV, and the Pre-primary school at Jote.

## OUTREACH ACTIVITY

### Music Club participation in Alcheringa

Students of NIT Arunachal Pradesh participated in Alcheringa was organised by IIT guwahati, Students on the Cultural festival, from 2025-01-30 to 2025-02-02.

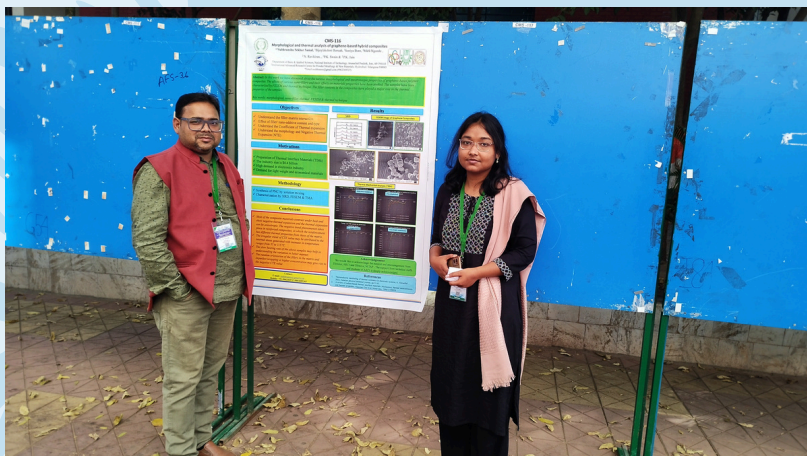


## Student Activities

1. The research group of Prof.P.K Swain has attended the International Conference on Emerging Trends in Physics (ICETP-2025) organized by Odisha Physical Society at KIIT University Bhubaneswar from 8-10 Feb 2025. Three research papers were presented in the form of posters by his research scholars Mr. Subhranshu Sekhar Samal, Mrs Kabita Rout & Ms. Bijjylakshmi Boruah on various areas of nanotechnology & computation condensed matter physics. The posters were appreciated by the jury members and created an impact in the conference.



2. Mr. Subhranshu Sekhar Samal, Research Scholar of Dept. of BAS(Physics) has been inducted as Board of Directors and Advisor for HN Technovations LLP (A startup incubated at Tripura University and recognized by MSME & DPIIT, Govt of India), Tripura which is working on the domain of water purification during disasters like flood, cyclone and geographically challenged regions. His expertise in the area of materials science, collaboration & networking and project management will be an asset for the startup in the north and north-eastern regions.



3. Mr. Subhranshu Sekhar Samal, Research Scholar of Dept. of BAS has been invited as Chief Speaker for the "Capacity building Program on Vermi Composting" of Centre for Environmental Studies, Dept of Forest, Environment & Climate Change of Govt of Odisha conducted at PHS, Rampur and trained 50+ farmers, SHGs women & local community.

## Training and Placement Cell

Name	Branch	CTC Offered	Company
Ankit	CSE	6 LPA	Larsen & Toubro Limited
Kanak Sharma	CSE		
Sainath Sajane	CSE		
Prakash Bhattarai	CSE		
Hemant Kant Pushpam	CSE		
Ganesh Pandey	CSE		
Animesh Basak	CSE		
Nandini Gour	CSE		
Ravella Lakshmi Phanisri	CSE		
Manash Pratim Saikia	CSE		
Bhukya Nageshwari	ECE		
Ajarapu Durga Swathignya	ECE		
Amit kumar	ECE		
Vangapandu Tagore	ECE		
Nisha Rani	ECE		
Runu Sukeerti	ECE		
Ayush Kumar Sinha	ECE		

Name	Branch	CTC Offered	Company
Kireet Yagnik	Mechanical	7.5 LPA	Reliance Industries Limited (Off-Campus)
Harish Chandra Barsara	Mechanical		
Ankit Kumar	Mechanical		
Devanand Kumar	Electrical		
Himanshu Sortha	Electrical	7 LPA	Suzuki Motors Gujarat Limited
Roshan Kumar	Electrical		
Rakshit Singh	Mechanical		

Vishal Raj	Civil	5.5 LPA	Infinity Learn
Jyotiranjn Satapathy	Mechanical	6.3 LPA	Saint-Gobain
Manasvi Sharma	CSE	15.5LPA – 21.6LPA	UKG (Off-Campus)

**Our Research Scholars joined in various higher education**

Amity School of Engineering and Technology	Dr. Saurabh Dubey Assistant Professor	CE
Marwadi university Rajkot Gujarat	Dr Thatikonda Naresh Assistant Professor	CE

## Editorial Board



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