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# TECHNODAYA

THE BI-MONTHLY NEWSLETTER

**NATIONAL INSTITUTE OF TECHNOLOGY  
ARUNACHAL PRADESH**

# DIRECTOR'S MESSAGE

Dear readers,

Technodaya, Volume- VI, Issue- 3 is published and brought to your notice. In the past two months (May - June, 2023), our faculty members and officers have made significant progress in various academic, research, and outreach activities, which have become landmarks in our pursuit of overall excellence in technical education.



I extend my heartfelt congratulations and best wishes to everyone who contributed directly or indirectly to these remarkable achievements. Their hard work and dedication have been instrumental in ensuring our success, some of which are:

**NIRF Rank-band 101-150**, 10 research papers including books and chapters in International or National Journals/Conferences, and so on. As outreach activities, International Yoga Day, World Environment Day, and National Technology Day were organized.

I hope this issue will inspire and motivate our readers to continue pushing the boundaries of knowledge and excellence in their respective fields.

With Best Wishes!

Prof. Pinakeswar Mahanta  
Director  
NIT Arunachal Pradesh

# EDITOR-IN-CHIEF'S MESSAGE

I am delighted to present this issue of TECHNODAYA, and I would like to express my gratitude to my co-editors, Dr. Shubhajit Das, Assistant Professor, and Mr. Ashok R, Research Scholar, both from the Department of Mechanical Engineering, for their valuable support and suggestions. I also extend my thanks to my colleagues for their insightful comments, which have helped to make this edition even better.



**Dr. K. Vijayakumar**  
Assistant Professor  
Dept. of M&H

I would like to take this opportunity to invite all students, alumni, faculty members, officers, supporting staff, and stakeholders associated with NIT Arunachal Pradesh to support us by sending news and articles to [technodaya@nitap.ac.in](mailto:technodaya@nitap.ac.in) or [newsletternitap@gmail.com](mailto:newsletternitap@gmail.com).

We hope that you find this issue informative and engaging, and we welcome your feedback and suggestions.

## EDITORIAL BOARD

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# ACADEMIC ACTIVITIES



## INVITED / EXPERT LECTURES GIVEN BY NITAP MEMBERS

1. S.N.Deepa, Associate Professor, Electrical Engineering, NITAP delivered a Special Lecture on "Funding Opportunity to Achieve SDG 7 Projects" in the IGEN ENERGATHON 2023, an Earth Day Indexed Conference on Energy towards Sustainability - Setting a new world record for the longest conference on SDG7 Affordable and Clean Energy towards Sustainability organised by Centre for Energy Sciences and Engineering, Institute of Green Energy IGEN, Chennai, 27/5/2023.

2. Dr. Moiragthem Momocha Singh, Associate Professor and Dean (Students' Welfare), NIT, Arunachal Pradesh, Department of Management and Humanities (M&H), NIT, Arunachal Pradesh, NITAP delivered a Disability Studies and the Social Sciences on "Disability Studies: Theory and Practice" in the COIN-2023 (Conference on Interdisciplinarity) organised by Dr. P. S. Mangang, Chairman, Organizing Committee, COIN-2023, Department of Humanities and Social Sciences, NIT Meghalaya, 18/11/2023.



National Institute of Technology, Arunachal Pradesh is placed in 101-150 rank-band among all Indian engineering and technology colleges in National Institutional Ranking Framework 2023 released by Shri Dharmendra Pradhan, Minister of MHRD, Government of India.

# RESEARCH & DEVELOPMENT



## RESEARCH PAPERS

1. Baranilingesan, I. Deepa, S N. & Yogambal, Jayalakshmi. (2023). An Intelligent Neural Network Controller for Non-Linear CSTR Process Control. Iranian Journal of Chemistry and Chemical Engineering, Web of science & Scopus Indexed. [doi.org/10.21875/2023.3.977-988](https://doi.org/10.21875/2023.3.977-988)
2. Yumkhaibam, R. & Ihouvum, Kimjolly. (2023). Finding of positive attributing values from a meat-derived food of Northeast India, Sathu. Rasayan Journal of Chemistry 16(2), 795-801. <http://doi.org/10.31788/RJC.2023.1628372>
3. Mariam, Kago. & Singh, Momocha. (2023). Evaluating Community Participation as a Rural Tourism Workforce. Journal of Statistics and Management Systems.
4. Kumar, Vanav. Lawrence, Jino. Jacob, Ashwin. Doley, Swapnali. & Pegu, Jhandesh. (2023). Heat and mass transfer effects on fluid past an exponentially accelerated vertical plate due to time-fractional MHD-free convection. Heat Transfer. <https://doi.org/10.1002/htj.22914>
5. Das, A. Ghosh, S. Ringu, T. & Pramanik, N. (2023). A Focus on Biomaterials Based on Calcium Phosphate Nanoparticles: an Indispensable Tool for Emerging Biomedical Applications. BioNanoScience 13(2), 795–818.

# RESEARCH & DEVELOPMENT



6. Tamizharasi, S. Arunadevi , B. & Deepa, S N. (2023). Bio-inspired deep residual neural network learning model for QoS routing enhancement in mobile ad-hoc networks. Springer Wireless Networks, SCI, SCIE and Scopus Indexed, IF - 3.0. [doi.org/10.1007/s11276-023-03424-3](https://doi.org/10.1007/s11276-023-03424-3)
7. Boje, Domngam. Sahoo, Suban Kumar. & Atta, Ananta Kumar. (2023). Sugar-based carboxamidoquinoline conjugate for sensing Cu<sup>2+</sup> and Au<sup>3+</sup> ions in water through different binding modes and real application . Analytica Chimica Acta, 341539. [doi.org/10.1016/j.aca.2023.341539](https://doi.org/10.1016/j.aca.2023.341539)
8. Doley, Swapnali. Kumar, Vanav. Chamkha, Ali J. & Lawrence, Jino. (2023). Numerical study of heat transfer between hot moving material and ambient medium using various hybrid nanofluids under MHD radiative-convection, viscous dissipation effects, and time-fractional condition. Numerical Heat Transfer Fundamentals 84(1), 24-49. 10.1080/10407790.2023.2175745
9. Mahanta, Prabhash. & lhouvum, Kimjolly “A new drug target potential PF11\_0189 from plasmodium falciparum genome has strong affinity for heptameric peptides” [Paper presentation]. Research and Industrial conclave, IIT Guwahati, from 14/5/2023 to 16/5/2023.
10. Abhik, Banerjee. Sachin, G M. & Deepa, S N. Designing a Control Strategy for PV-Wind-BESS based Microgrid system and integrating it with a weak grid [Paper presentation]. 5th IEEE International conference on Energy, Power and Environment (ICEPE 2023), NIT Meghalaya, from 15/6/2023 to 17/6/2023.

# FACULTY EMPOWERMENT PROGRAMS



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

1. Dr. Kimjolly Lhouvum, Assistant Professor, Biotechnology attended Project monitoring workshop on "Insight into Putative Insulinase PF11\_0189 and its correlation with hyperglycemia during severe malaria", organised by SERB from 12/5/2023 to 13/5/2023.
2. Dr. Kimjolly Lhouvum Assistant Professor, Biotechnology attended Hands-on workshop on "MATLAB" was organized by IIT Guwahati, at IIT Guwahati, from 14/5/2023 to 16/5/2023.
3. Dr M. Momocha Singh attended meeting held with Mr. Abhinav Dixit, Manager, Govt. Project, NSDC regarding creation of Training Centre at Skill Hub under PMKVY4 skill initiative project for training of 270 trainees from NIT Arunachal Pradesh on 8th of June 2023
4. Dr M. Momocha Singh participated International Yoga day by VC of Vivekananda Yoga University, Bangalore from 6 to 7 pm (virtual mode) on 21st of June 2023.

# AWARDS

## REVIEWERS

1. Dr. Nabakumar Pramanik, Associate Professor, Chemical Engineering served as a Reviewer of "Materials Research Express". IOP Publishing. 9/6/2023.
2. Dr. Nabakumar Pramanik, Associate Professor, Chemical Engineering served as a Reviewer of "Materials Research Express". IOP Publishing. 7/6/2023.
3. Dr. Nabakumar Pramanik, Associate Professor, Chemical Engineering served as a Reviewer of "Bulletin of Materials Science". Springer Nature. 8/6/2023.
4. Dr. Nabakumar Pramanik, Associate Professor, Chemical Engineering served as a Reviewer of "AICTE prescribed Text Book on "Chemistry-I"". Khanna Book Publishing, New Delhi. 25/5/2023.
5. Dr. Nabakumar Pramanik, Associate Professor, Chemical Engineering served as a Reviewer of "Journal of Water Process Engineering". Elsevier . 18/5/2023.
6. Dr. Nabakumar Pramanik , Associate Professor, Chemical Engineering served as a Reviewer of "Bulletin of Materials Science". Springer Nature. 18/5/2023.
7. Dr. Nabakumar Pramanik, Associate Professor, Chemical Engineering served as a Reviewer of "Acta Biomaterialia". Elsevier. 15/5/2023.

## HONORS AND AWARDS

Dr. Nabakumar Pramanik, Associate Professor, Chemical Engineering is accredited for one of his published journal article (paper) which has been ranked in the 62nd percentile among the articles of a similar age published in all the journals and the 99th percentile (ranked 1st) of the articles of a similar age published in the journal 'Polymer Bulletin' of Springer Nature Publication 31/5/2023.



# OUTREACH ACTIVITIES

## 1. Awareness Lecture on Mental Awareness Session

Dr. M. Momocha Singh organized mental awareness session and medical camp for all the students on 22 May 2023.



## 2. National Technology Day Programme

Dr. M. Momocha Singh organized National Technology Day Programme on 11th of May 2023 at 11 am in TEL Centre, NIT Arunachal Pradesh.

## 3. World Environment Day

World Environment Day on 5th June 12:30pm at TEL Centre with the presence of Hon'ble MoS Govt. of India joining virtually, and Faculty/Staff/Students of NIT Arunachal Pradesh Jote.



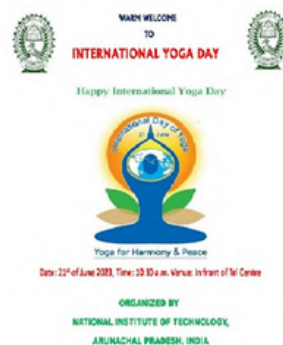
# OUTREACH ACTIVITIES

## 4. Honorable Prime Minister of India interaction with Gyar Nyokum, a student from NIT Arunachal Pradesh

Dr. M. Momocha Singh coordinated the publishing of Media releases regarding the interaction of Honorable PM Modi with Gyamar Nyokum, a Mechanical Engineering student in NIT Arunachal Pradesh during the Mann Ki Baat program held on 28th of May, 2023.



## 5. International Yoga Day Celebration of 9th International Yoga Day, at NIT Arunachal Pradesh campus with the presence of faculty/staffs/ students on 21st of June 2023



# STUDENT ACTIVITIES



1. Industry visit: Dr. M. Momocha Singh organized industry visit for MTech (Innovation and Entrepreneurship) first year students for Department of Management and Humanities (M&H), NIT Arunachal Pradesh on 27-28 May 2023.



2. Telangana Foundation Day at Raj Bhavan, Itanagar  
Telangana Foundation Day Celebration at Raj Bhavan, Itanagar with the presence of His Excellency Governor of Arunachal Pradesh, Lt Gen Kaiwalya Trivikram Parnaik, PVSM, UYSM, YSM (Retd) and with students from Telangana on 2nd of June 2023.

# STUDENT ACTIVITIES



3. The Inter Society Yearly Cricket Tournament was organized by EESS and Team (Ritesh Kumar, Deepak Kumar, Naveen Jakhar, Neeraj Kumar, Vinay Beniwal, Gali Karthik, Thagun Doka) - 9 League Matches, 2 Quarterfinal Matches, and the Finals.

Group A	Group B
ECESS	CSE
MESS	EESS
CESS	PhD

Winners: **ECESS**

Runner up: **CSE**



4. Five thrilling friendly cricket matches among students, one showdown by non-teaching staff.

5. Football tournament 1 won by Mechanical Department (MESS).

6. Football tournament 2 won by Civil Department (CESS).



# STUDENT ACTIVITIES

7. A tribute-filled friendly football match honoring the 4th year (2019 batch).



8. Fresher's Meet: Dear Freshers, a warm welcome to our academic community! As seniors, we are delighted to guide and nurture your growth. Embrace the journey with determination, hard work, and a zest for life, and make the most of every moment.



9. A farewell was organized by the 2020 and 2021 batches for one of our esteemed faculty members from the Computer Science and Engineering department, Dr. Deepak Gupta, who has joined MNIT Allahabad. We wish him all the best for his future.



# FAREWELL 2023

Farewell 2023: As another chapter closes, the 2019-2023 batch embarks on a new journey, leaving behind cherished memories and friendships. With hearts filled with pride and nostalgia, we bid adieu to our accomplished seniors, now ready to embrace the challenges of the world. Until we meet again, farewell and we will deeply miss your presence. Best wishes from your juniors, the 2024 batch.



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# STUDENT ACHIEVEMENTS

## GATE 2023 RESULT

### GATE 2023 RESULT

Name of Student	Paper	Roll Number	Gate Score	AIR
Shantanu Banerjee	ME	ME/19/05	611	1381
Shivam Kumar	CS	CSE/19/25	532	2337
Jnaneswar Rama Santosh Kalluri	ME	ME/19/21	486	3681
Harsh Rathor	EC	ECE/20/08	459	3361
Vaibhav	EC	ECE/20/34	459	3361
Dev Singh Kanyal	CS	CSE/20/21	457	4330
Harsh Lavkush Pathak	CS	CSE/20/28	416	6135
Bala Naga Sai Manikanta K	EC	ECE/20/20	393	5140
Rohit Gupta	IN	EE/19/30	391	1170
Nishant Raj	EC	ECE/20/16	368	6011
Rohit Gupta	EE	EE/19/30	356	4035
Kiran Kumar Kapa	EC	ECE/20/33	285	10241
Sonu Lochan Paswan	CS	CSE/20/08	239	26313
Kashish Singh	EE	EE/19/27	231	9590

# ATULYAM

## ATULYAM - THE ANNUAL CULTURAL FEST

Our endeavor is to start an odyssey that will inculcate in us the zeal and spirit to embrace the galaxy of brilliance in our midst and lead us all to fame and glory. ATULYAM is one of the esteemed annual cultural festivals in the northeast. It offers entertainment, fun, integrated with awareness and responsibility, creating a holistic and magical environment.









# NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH



Your comments and suggestions are welcome to make the next issue of Technodaya more interactive.

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