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TECHNODAYA

THE BI-MONTHLY NEWSLETTER



NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH

DIRECTOR'S MESSAGE

Dear readers,

Technodaya, Volume- VI, Issue- 2 is published and brought to your notice. In the past two months (January - February, 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 orientation program for the translators and reviewers, MoUs, 1 Patents, Internships, 10 Research papers in International/National Journals/Conferences, Workshops, Training programs, and so on. As outreach activities, Yuva Sangam - Student exposure visit to Andhra Pradesh as well as Arunachal Pradesh and Alumni Talks 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 coeditors, 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.



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 <u>technodaya@nitap.ac.in</u> or <u>newsletternitap@gmail.com</u>.

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

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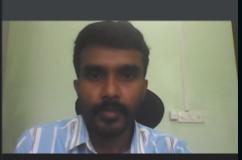
Student Editors

Chandrashekhar Tripathi, Pursottam Sah, Daknya Bam, Dev Singh Kanyal B.Tech, Department of Computer Science & Engineering

ACADEMIC ACTIVITIES







Guest Lecture by Dr. K Vijayakumar

INVITED/EXPERT LECTURES GIVEN BY NITAP MEMBERS

1. Dr. K. Vijayakumar, Assistant Professor, Dept of Management and Humanities, NITAP delivered a Guest Lecture on "Structure of Research Article" in the Virtual Guest Lecture Series organised by Dept. of English, School of Social Sciences and Languages, Vellore Institute of Technology, Vellore, Tamilnadu, 26/4/2023.

2. Dr. Moirangthem Momocha Singh, Associate Professor, Department of Management and Humanities (M&H), NITAP delivered a Encouraging creative thinking and develop ability to create business plan by understanding the stages of entrepreneurial process and the resources needed for the successful development of the entrepreneurial venture. on "Entrepreneurial Skills" in the 5 Day Workshop on Entrepreneurial Concepts and Skills organised by National Institute of Technology, Meghalaya, 25/4/2023.

BOOKS/CHAPTER PUBLICATIONS

1. Kumar, A Vanav. Jino, L. Berlin, M. Doley, Swapnail. Saravanakumar, G. & Jacob, Ashwin. (2023). Influence of Lorentz force on Cu-water nano liquid convective thermal transfer in a porous lid-driven cavity with uniform and linearly heated boundaries. CRC Publications.

1. Kumar, A Vanav. Jino, L. Berlin, M. Doley, Swapnail. Saravanakumar, G. & Jacob, Ashwin. (2023). Influence of Lorentz force on Cu-water nano liquid convective thermal transfer in a porous lid-driven cavity with uniform and linearly heated boundaries. CRC Publications.

Page 1 TECHNODAYA2 VOL-VI ISS-2

RESEARCH & DEVELOPMENT

RESEARCH PAPERS

1. Jino, L. Kumar, A Vanav. Jacob, Ashwin. & Doley, Swapnail. (2023). Heat and mass transfer effects on fluid past an exponentially accelerated vertical plate due to time-fractional MHD free convection. Heat Transfer.

https://onlinelibrary.wiley.com/action/doSearch? AllField=Jino&SeriesKey=26884542

- 2. S.N. Deepa, et. al (2023). Terahertz Women Reproductive Hormones Sensor Using Photonic Crystal Fiber based Behavior Prediction employing Machine Learning. IEEE Access. Accepted for Publication on 27-04-2023
- 3. 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. doi: 10.1007/s12668-023-01081-6

CONFERENCE PAPERS

- 1. Das, A. Ringu, T. & Pramanik, N. Zinc Oxide (ZnO) Based Polymer Nanocomposites for Bioengineering Applications [Paper presentation]. 7th International Conference on Nanoscience and Nanotechnology (ICONN-2023), SRM Institute of Science and Technology, Chennai, India, from 27/3/2023 to 29/3/2023.
- 2. Ringu, T. Das, A. & Pramanik, N. Recent advancement of biocompatible copper-based nanocomposite for biomedical applications [Paper presentation]. International Symposium on Emerging Trends in Chemical Sciences-ETCS2023, North-Eastern Hill University (NEHU), Shillong, India, from 2/3/2023 to 4/3/2023.

EXTERNAL FUNDED PROJECTS

M. Momocha Singh, Principal Investigators received an external project titled "Skill India Initiative under Pradhan Mantri Kaushal Vikas Yojana 4.0 (PMKVY 4.0)". Funding Agency: National Skill Development Corporation (NSDC), New Delhi, 17/4/2023.

Page 2 TECHNODAYA2 VOL-VI ISS-2

FACULTY EMPOWERMENT PROGRAMS



WORKSHOP/FDP/CONFERENCE/SEMINAR/SHORT TERM COURSE

1. One day awareness programme on Design and Fabrication on "Funding opportunities by Ministry of Micro, Small and Medium Enterprises (MSME) under Innovation-Design Scheme" was organized by Dr. Abhik Banerjee, Associate Professor, Department of Electrical Engineering, Dr. Prases Kumar Mohanty, Associate Professor and Dr. Shubhajit Das, Assistant Professor, Department of Mechanical Engineering, in collaboration with Ministry of Micro, Small and Medium Enterprises (MSME), at Pybss Hotel, Itanagar, Arunachal Pradesh on 10/3/2023.



Page 3 TECHNODAYA2 VOL-VI ISS-2

2. One day awareness programme on Design and Fabrication on "Funding opportunities by Ministry of Micro, Small and Medium Enterprises (MSME) under Innovation-Design Scheme" was organized by Dr. Abhik Banerjee, Associate Professor, Department of Electrical Engineering, Dr. Prases Kumar Mohanty, Associate Professor and Dr. Shubhajit Das, Assistant Professor, Department of Mechanical Engineering, in collaboration with Ministry of Micro, Small and Medium Enterprises (MSME), at River View Hotel, Naharlagun, Arunachal Pradesh on 23/3/2023.



3. Entrepreneurship Development Programme on Preparation of Hydroponics setup on "Hydroponics" was organized by A. Vanav Kumar, Associate Professor, Department of Basic and Applied Science, at National Institute of Technology, Arunachal Pradesh, Jote Campus, from 6/3/2023 to 10/3/2023.



Page 4 TECHNODAYA2 VOL-VI ISS-2



4. International Conference on Advances in IoT and Security with AI on "IoT, AI, ML" was organized by Dr Deepak Gupta, Assistant Professor, CSE, in collaboration with Deen Dayal Upadhya College, University of Delhi, India, University of Canberra, Australia, at Deen Dayal Upadhya College, University of Delhi, India, from 24/3/2023 to 25/3/2023.





Page 5 TECHNODAYA2 VOL-VI ISS-2

5. National Conference on "National Education Policy (NEP) 2020- Academic Leadership Alignment Programme (ALAP) on National Education Policy Implementing Pathway Service" was organized by Dr. Moirangthem Momocha Singh, Associate Professor, Department of Management and Humanities (M&H), in collaboration with Bharatiya Shikshan Mandal (BSM), National Institute of Technology, Silchar, North East Regional Institute of Science and Technology (NERIST), at Silver Jubilee Hall, North East Regional Institute of Science and Technology (NERIST), Nirjuli, Arunachal Pradesh, India, from 20/4/2023 to 21/4/2023.

6. Two Week Offline Entrepreneurship and Skill Development Programme on "Product Design and Development using Design Software and 3D printing operation (Phase I)" was organized by Dr.Prases Kumar Mohanty, Associate Professor and Dr. Shubhajit Das, Assistant Professor, Department of Mechanical Engineering, in collaboration with Ministry of Micro, Small and Medium Enterprises (MSME), at NIT Arunachal Pradesh, Jote, from 13/3/2023 to 17/3/2023.



7. Wireless Robotics on "Programing and Assembling to make new product by using Wireless Robotics" was organized by Dr. Abhik Banerjee, Associate Professor Dept. of Electrical Engineering and Dr. Brajagopal Datta, Assistant Professor Dept. of Electrical Engineering, in collaboration with MSME, Govt. of India, at Dept. of Electrical Engineering, NIT Arunachal Pradesh, Jote, during 20/3/2023 to 24/3/2023.



8. Introduction to High Performance Computing: Applications and Systems on "High Performance Computing" was organized by Prof. Dr. Sharad Sinha, Associate Professor, IIT, Goa, in collaboration with Dr. A. Vanav Kumar, Associate Professor, NIT, Arunachal Pradesh, at Online, IIT, Goa and NIT, Arunachal Pradesh, from 25/3/2023 to 25/3/2023.



9. One Week Offline Entrepreneurship and Skill Development Programme on "Product Design and Development using Design Software and 3D printing operation (Phase II)" was organized by Dr. Prases Kumar Mohanty, Associate Professor and Dr. Shubhajit Das, Assistant Professor, Department of Mechanical Engineering, in collaboration with Ministry of Micro, Small and Medium Enterprises (MSME), at NIT Arunachal Pradesh, Jote, from 20/3/2023 to 24/3/2023.



Page 7 TECHNODAYA VOL-VI ISS-2

FACULTY EMPOWERMENT PROGRAMMES

1. Dr. Nabakumar Pramanik, Associate Professor, CHE attended Workshop on "Hands-on Training Programme on Herbal Tablets, Capsules and Syrup Making", organised by Department of Biotechnology, NIT, Arunachal Pradesh, India from 24/3/2023 to 28/3/2023.

2. M. Momocha Singh participated as member of committee constituted for the purpose of Interaction cum Assessment of the Power Point Presentations (PPT) to be given by various organization that are provisionally qualified for registration with APIDFCL at 11 am on 4th of April, 2023 at Itanagar.

Page 8 TECHNODAYA2 VOL-VI ISS-2

AWARDS



REVIEWERS

- 1. S.N. Deepa, Associate Professor, Electrical Engineering served as a Reviewer of "Applied Sciences". MDPI Publishing Ltd. 23/3/2023.
- 2. S.N. Deepa, Associate Professor, Electrical Engineering served as a Reviewer of "Energy and Environment". Sage Publishing House Ltd. 28/4/2023.
- 3. Dr. Shubhajit Das , Assistant Professor, Department of Mechanical Engineering served as a Reviewer of "Journal of Cleaner Production". Elsevier. 10/4/2023.
- 4. Dr. Nabakumar Pramanik, Associate Professor, CHE served as a Reviewer of "Bulletin of Materials Science". Springer Nature publications. 11/3/2023.
- 5. Dr. Nabakumar Pramanik, Associate Professor, CHE served as a Reviewer of "Materials Research Express". IOP Science Publications. 24/4/2023.
- 6. Dr. Nabakumar Pramanik, Associate Professor, CHE served as a Reviewer of "Ceramics International". Elsevier Publications. 10/3/2023.

Page 9 TECHNODAYA VOL-VI ISS-2

AWARDS

1. VIDEOTHON 2023

We are excited to announce the winners of the VIDEOTHON '23 organized by Coding Pundits formally NSCC NIT Arunachal Pradesh for first-year students (2022-26 batch). Here are winners:

- 1st Position: Computer Science and Engineering (CSE) students
- 2nd Position: Electronics and Communication Engineering (ECE) students
- 3rd Position: Electrical Engineering (EE) students

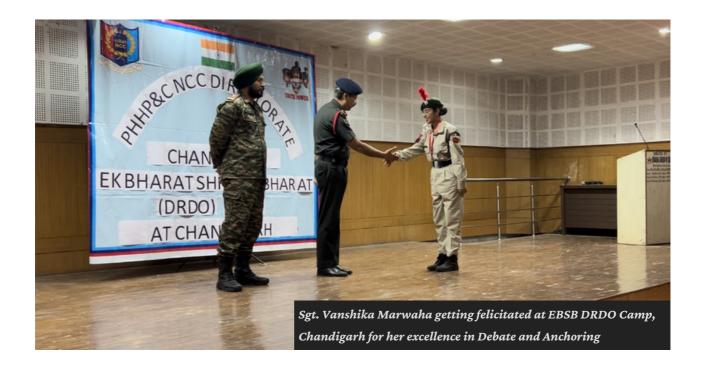
Congratulations to all the winners for their exceptional talent and dedication. Keep up the great work!



- **2.** Dr. Nabakumar Pramanik, Associate Professor, CHE is Honored as a Reviewer for the AICTE prescribed Textbook entitled 'Chemistry-I with Lab manual', Khanna Book Publishing of AICTE, New Delhi, India.
- **3.** Dr. Nabakumar Pramanik, Associate Professor, CHE served as Co-Supervisor of a Ph.D. student Mini Loya whose Defense seminar was completed on 23rd March 2023)

Page 10 TECHNODAYA VOL-VI ISS-2

4. Gold Medal Triumph: Sgt Vanshika Marwaha excels in Debate & Anchoring at EBSB DRDO Camp Sergeant Vanshika Marwaha of 1st AP BN NCC, NIT AP, secured the prestigious gold medal for debate and anchoring at the EBSB DRDO camp held in Chandigarh from 9th-13th May, under 13th Punjab Battalion NCC, Firozpur, P.H.HPC Directorate.



5. Winners of Photography Competition

PHOTOGRAPHY COMPETITION



3rd Olik Ering

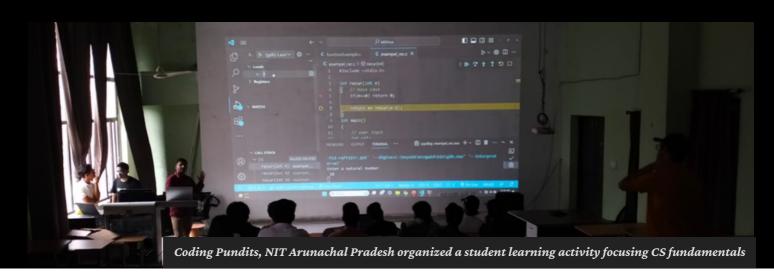


1st M. Manjunath



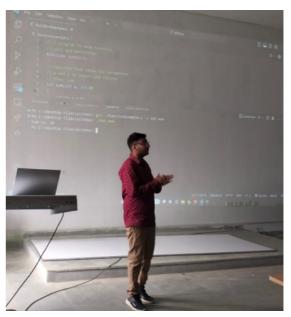
2nd Tasso Moryang

OUTREACH ACTIVITIES



1. A student learning activity was organized by Coding Pundits at NIT Arunachal Pradesh on May 15, 2023. The activity focused on the roadmap to CS fundamentals, specifically designed for first-year students.





2. Dr. M M Singh organized a campus cleaning activity with the students at hostel surroundings the main roadside and grounds.



ALUMNI ASSOCIATION

ALUMNI UPDATES

1. Arpit Gupta, a distinguished alumnus of our college's Department of Computer Science and Engineering, has achieved remarkable success in his professional and academic pursuits. After graduating in 2021, Arpit secured a position as an engineer at Indiamart, where he has proven himself to be a valuable asset to the company. Recently, he received a phenomenal percentile of 99.26 in CAT2022, which opened up new horizons for him.



Arpit's impressive percentile in CAT2022 caught the attention of many prestigious business schools, including IIM Bangalore. As a result, he has been selected for admission into the MBA program at IIM Bangalore, one of the most renowned management institutions in India. We are proud of Arpit's achievements and wish him all the best in his future endeavors.



2. Congratulations to our alumni Deepti Tripathi B Tech ECE 2010-14 On the occasion of the grand 5th Anniversary Celebration at RDS NATURE RETREAT, we are a pleasure to announce that she was recognized and awarded as the Best Employee Radiant Semiconductors Pvt.Ltd

3. Congratulations to Manish Kumar Singh for being promoted to Assistant Manager at Vedanta Limited - Aluminium Business

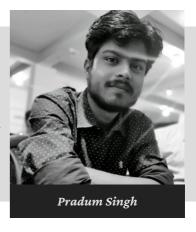


ALIMUNI UPDATAE



4. Congratulations to our alumni Anant Kumar Singh B Tech CSE 2011-15 being promoted as Lead Engineer at Tejas Networks

5. Congratulations to Pradum Singh M-Tech 2018-22 Mechanical Engineering for starting a new position as Assistant Manager at Hindustan Zinc





6. Congratulations to our alumni Avanish Singh B Tech 2012-16 Electrical and Electronics Engineering for being promoted to Quality Assurance Engineer (E-II) at Pearce Services

7. Congratulations to our alumni Akanksha Mudgal B Tech Biotechnology 2016-20 starting a new position as Visiting Researcher at Florida Atlantic University!



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

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