राष्ट्रीय प्रौद्योगिकी संस्थान अरुणाचल प्रदेश

NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH
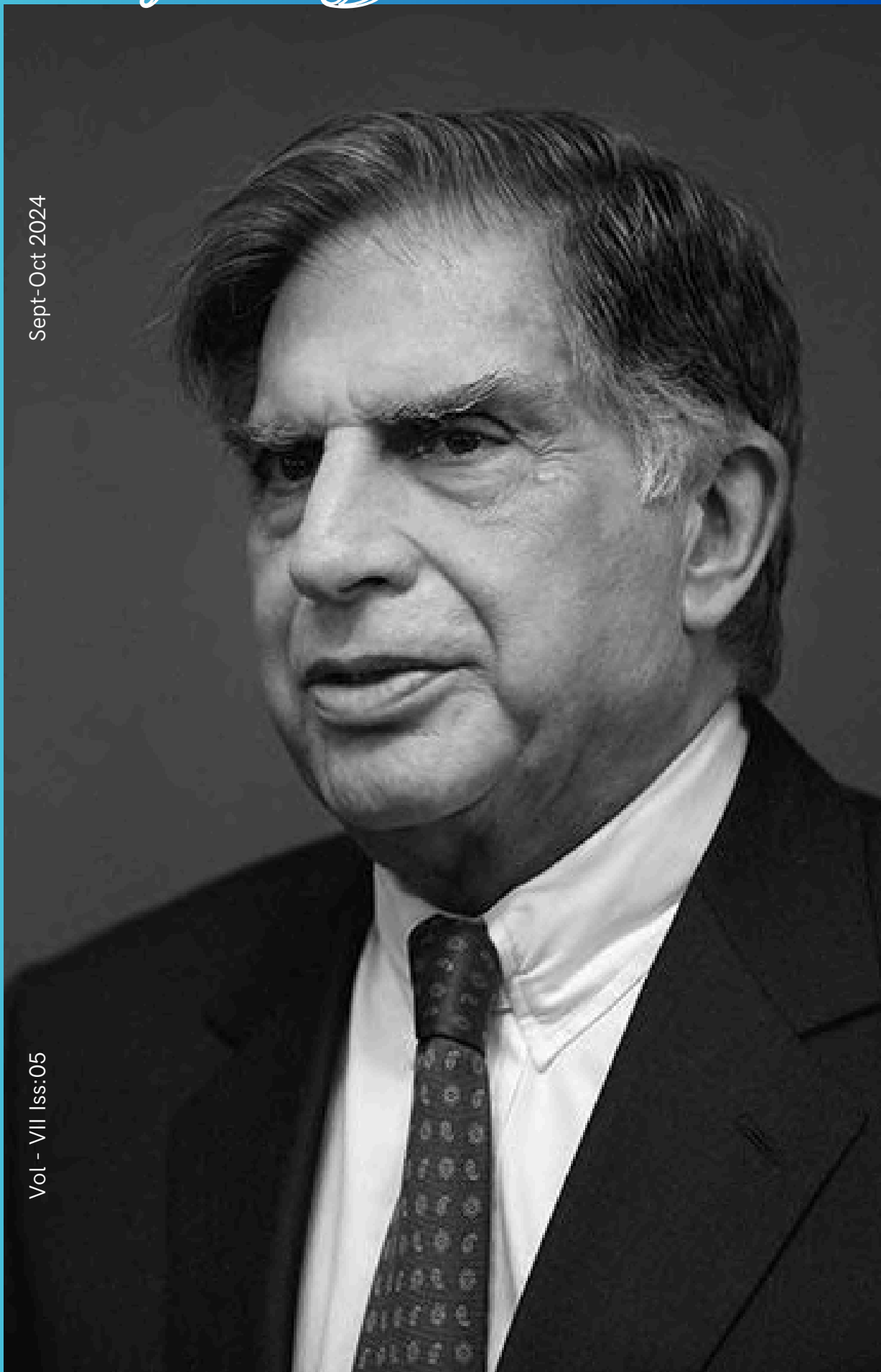
Director's Message

Exciting News from NIT Arunachal Pradesh!

I am pleased to share with you the latest edition of our institute's newsletter, Technodaya, Volume VII, Issue 5. Over the past two months (September–October 2024), our faculty and staff have made remarkable contributions across various academic, research, and outreach activities, effectively bridging the gap between academia and society.

I extend my heartfelt congratulations to all those involved in these noteworthy initiatives, which include the visit of the Chief Secretary of Arunachal Pradesh, the observance of Swachhta Pakhwada, participation in the Swachhata Hi Sewa 2024 campaign, Hindi Pakhwada celebrations, student participation in the football tournament at NIT Rourkela, the seminar on Deceased Organ Donation, updates from the Training and Placement Cell, and the observance of Vigilance Awareness Week 2024.

Stay tuned for more details in the upcoming newsletter, and be sure to read about the exciting activities and events that have taken place over the past few months.

Our faculty, staff, and students continue to inspire and lead by example, making NIT Arunachal Pradesh a hub of progress and a source of pride for the entire academic community.

This issue is dedicated to Shri Ratan Tata in recognition of his invaluable contributions to our nation.

Best regards
Prof. Mohan V. Aware
Director, NITAP

Editor-in-Chief's Message

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

I am delighted to present this issue of TECHNODAYA to you. I extend my heartfelt thanks to my new editorial team—Ms. Sarti Gamdik, Research Scholar, Dept. of M&H, Mr. Atul Kumar, Ms. Riya Yadav, Mr. Uday Saha, Ms. Ipshita Karmakar, and Mr. Raj Kumar, B.Tech, NITAP—for their design work and valuable suggestions. A special note of gratitude goes to my colleagues for their insightful feedback, which has contributed greatly to enhancing this edition. I also invite all students, alumni, faculty, officers, supporting staff, and other stakeholders of NIT Arunachal Pradesh to contribute news and updates to TECHNODAYA by emailing us at technodaya@nitap.ac.in or newsletternitap@gmail.com.

Editorial Board

Institute

Activities

A Courtesy Call by Shri Subhash Kumar, the Chairman of the Board of Governors

On October 21, 2024, Shri Subhash Kumar, the Chairman of the Board of Governors at the National Institute of Technology (NIT), Arunachal Pradesh, made a courtesy call to the Chief Minister of Arunachal Pradesh, Shri Pema Khandu. During the meeting, they discussed the strategic direction of the institute and its future roadmap, focusing on enhancing the institute's growth and contribution to the region's development.

This visit highlights the collaborative efforts between the state government and educational institutions to foster innovation and strengthen the educational infrastructure in Arunachal Pradesh.

Shri. Manish Kumar Gupta, the Chief Secretary of Arunachal Pradesh, visited NIT Arunachal Pradesh for an interaction session with faculty, staff, and students to assess the academic environment, infrastructural gaps and discuss key areas for improvement. He was accompanied by other government officials on October 26, 2024. The meeting was presided over by Prof. Mohan V. Aware.
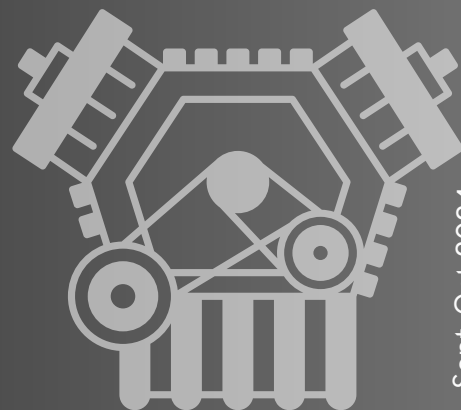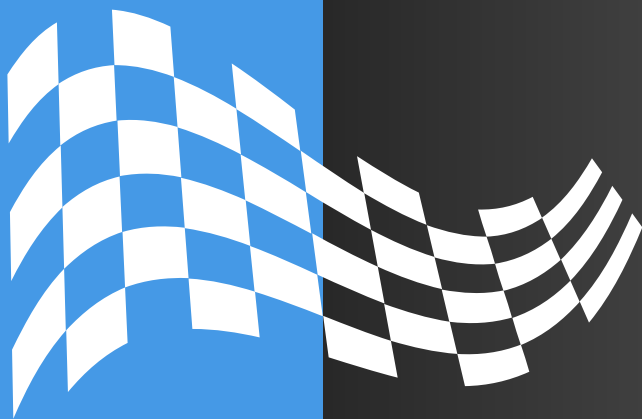
Academic Activities

Invited/Expert Lectures given by NIT AP members

Dr. Jayakesh K, Assistant Professor, Civil Engineering, NITAP delivered a Special Lecture on "Smart Urban Infrastructure" in the Invited Talk (Virtual Platform) organised by Indian Concrete Institute and BMS Institute of Technology & Management, Bengaluru, Karnataka, 2024-01-14.

Visits and Invited/Expert Lectures to NITAP from other insitutes

डॉ. राजीव रंजन प्रसाद , सहायक प्राध्यापक, हिंदी विभाग, राजीव गांधी विश्वविद्यालय अरुणाचल प्रदेश visited and delivered a उद्घाटन भाषण on "राजभाषा हिंदी का क्रियान्वयन एवं विविध आयाम" organised by हिंदी समिति संघ, राष्ट्रीय प्रौद्योगिकी संस्थान अरुणाचल प्रदेश, 2024-09-02
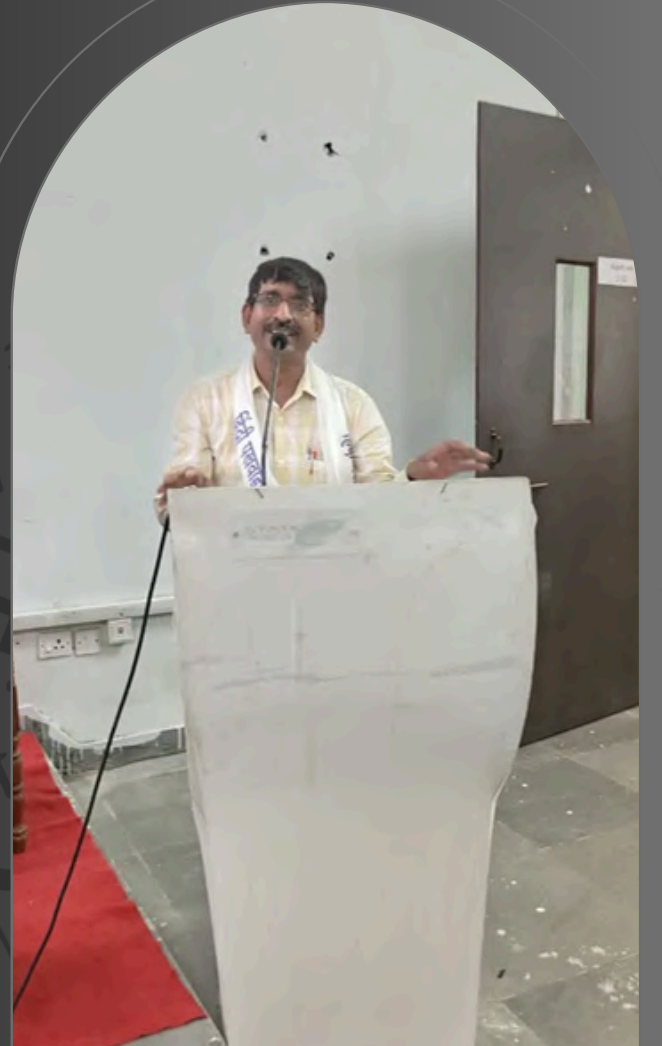
विशेषज्ञ, हिंदी पखवाड़ा 2024 के उद्घाटन समारोह में व्याख्यान देते हुए ।

Research & Development

Research Papers

- Mahanta, Prabhash. Kimjolly Lhouvum, (2024). Plasmodium falciparum Proteases as new drug targets with special focus on Metalloproteases. Molecular and Biochemical Parasitology 258. https://doi.org/10.1016/j.molbiopara.2024.111617

- Mahanta, Prabhash. Kimjolly Lhouvum, (2024). In Silico Analysis of Conformational Dynamics and Energetic Landscapes of Putative Insulinase PF11_0189 From the Plasmodium falciparum Genome With Insulin-Derived Peptides: Approach to Rationale Design of Insulin Peptide-Based Inhibitors. Peptide Science. https://doi.org/10.1002/pep2.24377

- Mahanta, Prabhash. Kimjolly Lhouvum, (2024). Expression and biochemical characterization of the putative insulinase enzyme PF11_0189 found in the Plasmodium falciparum genome. Protein Expression and Purification 222. https://doi.org/10.1016/j.pep.2024.106539

- Jino , Lawrence.Berlin , Mohandhas.Natarajan , Narayanan. (2023). Numerical Analysis on the Fate and Transport of TiO2 Nanoparticles in Fractured Porous Media: Addressing Intrinsic Heterogeneities in Sorptive Mass Transfer. Science of the Total Environment 954(177008). https://doi.org/10.1016/j.scitotenv.2024.177008

- Gupta , D.Hazarika , B B.Berlin , Mohandhas. (2024). Wavelet kernel large margin distribution machine-based regression for modelling the river suspended sediment load. Computers and Electrical Engineering 120(109783). https://doi.org/10.1016/j.compeleceng.2024.109783

- Radha , Boruah.Berlin , Mohandhas.Jayakesh , K. (2024). Application of Microbially Induced Calcite Precipitation to Improve Poorly Graded Sandy Soil. Suranaree Journal of Science and Technology.

- Ringu, T.Das, A.Ghosh, S.Pramanik, N. (2024). Exploring the potential of copper oxide nanoparticles (CuO NPs) for sustainable environmental bioengineering applications. Nanotechnology for Environmental Engineering. https://doi.org/10.1007/s41204-024-00389-2.

- Dutta, Debjit. Kolay, Debaditya. (2024). Nonlinear Interaction and modulational Instability of dust acoustic disturbances in a magnetized cometary plasma. Contributions to Plasma Physics (SCI, Category: Q2). 10.1002/ctpp.202400090 (Accepted on 29.10.24)

Research & Development

Conference Papers

- Bisal, P.Pramanik, N. A Review-Based Iron Oxide Nanocomposite for Advanced Bio Imaging Application [Paper presentation]. International Symposium on Current Trends in Advanced Materials (CTAM - 24), VIT-AP University in association with American Chemical Society, Chennai, India, from 2024-08-26 to 2024-08-31.

- Nur Amalina Binti , Mohammad Amin. Sankar, Duraisamy Sambasivam.Kumar, Alagarsamy Vanav. Statistical Analysis on Influence of Sectoral Contribution to Malaysia's Economic Growth [Paper presentation]. 5th International Conference on Mathematics, Engineering and Industrial Applications, Kuah, Malaysia, from 2024-10-26 to 2024-10-27.
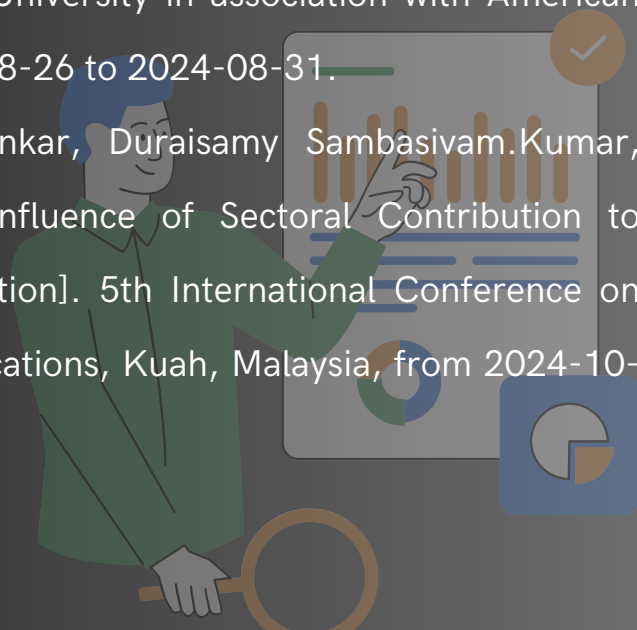
Books

Peckol, James K. .Bhurane, Ankit A..Sing, Dushyant K. .Dutta, Lachit .Roy, Sahadev .Sasamal, Trailokya Nath . (2024). Embedded Systems A Contemporary Design Tool. Wiley. 378-93-5746-396-6

PhD Defence

Sajal Sasmal (PhD(ECE)/2019/02) successfully defended his PhD thesis titled Development of an ASR System for 'Adi', a Zero-Resource Indigenous Language of Arunachal Pradesh on 23.09.2024.
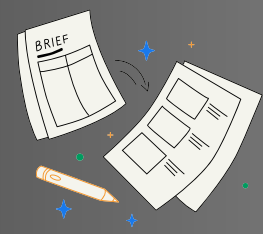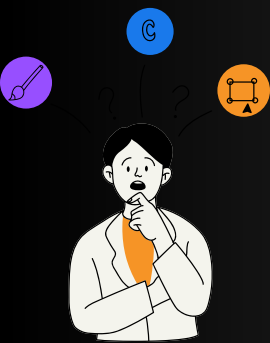
Faculty Empowerment Programs

- A. Vanav Kumar, Associate Professor, Department of Basic and Applied Science attended Online Course, CUDA Shiksha, NATIONAL COMPUTING MISSION on "Deep dive into GPU Computing", organised by CDAC PUNE and NSM Nodal Centre for Training in HPC & AI, IIT, GOA, from 2024-07-01 to 2024-09-30.

Awards

Reviewers

- Dr. Sahadev Roy, Assistant Professor, ECE served as a Reviewer of "3rd International Conference on Human-Centric Smart Computing (ICHCSC 2024)". University of Engineering & Management, Jaipur, India. 2022-10-20.
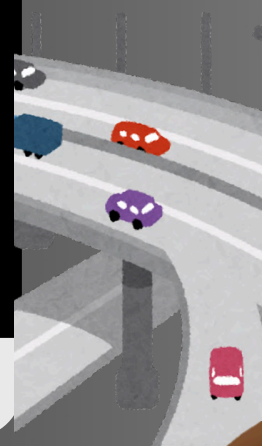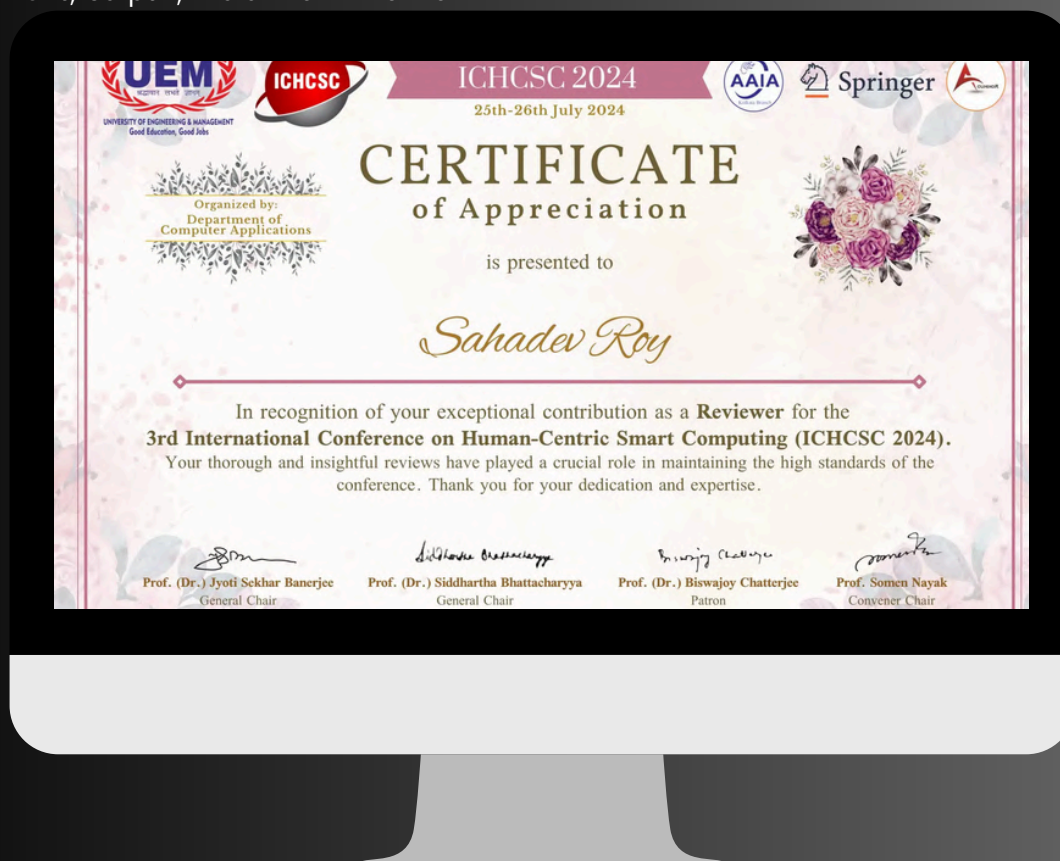
- A Vanav Kumar, Associate Professor, Department of Basic and Applied Mathematics served as a Reviewer of "MDPI". MDPI. 2024-10-27.

- Dr. Nabakumar Pramanik, Associate Professor, Basic and Applied Science is the Editorial Board Member for the Journal 'Scientific Reports' of Nature Portfolio, London, N1 9XW, 2024-10.
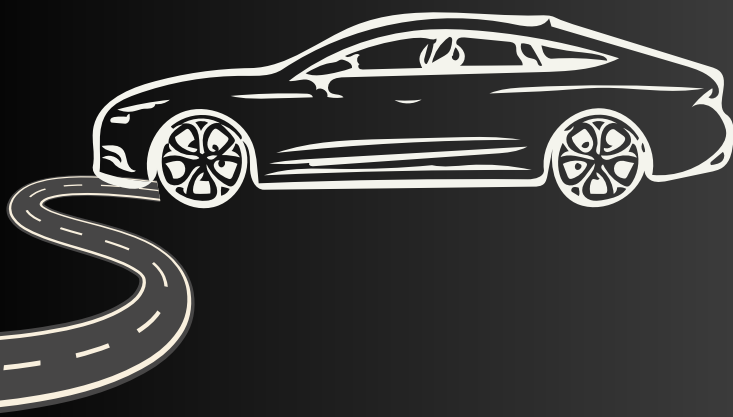
Outreach Activities

Music Club Orientation program

Orientation program of Music Club was organised by Dr. Kimjolly Lhouvum, Faculty Coordinator, Music Club on the Music for Peace & Harmony, from 2024-08-23 to 2024-08-23.

Music club band performance

Football tournament at NIT Rourkela

NIT AP students participated at AIINIT football tournament at NIT Rourkela from 18th Oct to 20th Oct 2024.

SPIRIT 2024 at IIT Guwahati

NIT AP students participated at SPIRIT 2024 at IIT Guwahati for Kabaddi and Badminton. SPIRIT 2024 was held from 24th Oct to 27th Oct 2024.

Swachtha Pakwada-2024

1. Cleanliness Drive

In accordance with the directives from Prof. Mohan V Aware, Director, NITAP, Swachhata Pakhwada 2024 was organized a daily cleanliness drive for each block (to name them, Academic Block, I, II, III and IV, Lohit (Boys and Girls), Subansiri, Papum Hostels, Research and Development Building, Central Library Building, and aculty and Staff Quarters. The building users were required to participate in the cleanliness drive and clean their respective blocks. NIT Arunachal Pradesh has been actively engaged not only in this cleanliness drive but also plantation drive (Ek Ped Maa Ke Naam), clean room contest, identifying best cleanliness performer and Swachhata seminar. The two weeks events were organized by EBSB Cell in collaboration with NSS, NCC, the Green Club, Campus Beautification, Horticulture, and SBA. The Coordinators are Dr. K. Vijayakumar, Dr. Ralli Sangno, Dr. Achyuth Sarkar Dr. Yang Saring and Dr. Vanav Kumar.

Highlights of the Events

2. Motivational Talk by Shri Techu Aran, Commissioner of the Itanagar Municipal Council.

The seminar began with an inspiring and motivational talk by Shri Techu Aran, Commissioner of the Itanagar Municipal Council. Shri Aran emphasized the importance of cleanliness and the role each individual plays in achieving a sustainable and hygienic environment. His speech underscored the need for collective effort and responsibility in maintaining cleanliness both within the campus and in the larger community. The audience was highly engaged, and his words left a lasting impression on everyone present.

3. Clean Room Contest Winners

Following the motivational talk, the winners of the Clean Room Contest were announced. This contest, which was held as part of the Swachhata Pakhwada, encouraged students to maintain cleanliness in their rooms. The winners were selected based on their adherence to cleanliness standards and their innovative approaches to maintaining a tidy environment. The announcement was met with applause and enthusiasm from the audience, celebrating the efforts of those who excelled in the contest.

Winners of Clean Room Contest

Subansiri hostel
Mr. Rahul Prajapati
Lohit-I girls' hostel
Ms. Minam Talom
Ms. Rita Ete
Ms. Neha Thakur
Lohit-II Boys' hostel
Mr. Sonu Kumar
Mr. Nikhil Kumar
Mr. Raushan Kumar
Papum Boys hostel
Mr. Siro Bagang
Mr. Tapan Kodak

4. Recognition of the Best Cleanliness Performer

The event also featured the recognition of the Best Cleanliness Performer. This accolade was awarded to an individual or group that demonstrated exceptional commitment to cleanliness and hygiene throughout the year. The recipient of this award was commended for their outstanding efforts and significant contributions towards enhancing the cleanliness standards of the campus.

Best Cleanliness Performer

Sl No.	Name	
01	Kartick Mirdha	Lohit-II Boys hostel
02	Mallo Natung	Subansiri Boys hostel
03	Tem Isha	Lohit-I Girls hostel
04	Tana Tudap	Papum Boys hostel
05	Sanjana Borman	Academic Block-I
06	Komol Pegu	Academic Block-II
07	Biky Mayung	Academic Block-III
08	Jitender Dole	Academic Block-IV

5. Ceremony to Honor Waste Collectors

A special ceremony was held to honor the waste collectors Nabam Talum and Nabam Mama of our institute. This segment of the seminar highlighted the often-overlooked contributions of these essential workers. Their dedication and hard work in managing and disposing of waste were acknowledged and celebrated. Each waste collector was presented with a token of gratitude, recognizing their vital role in maintaining the campus's cleanliness and hygiene.
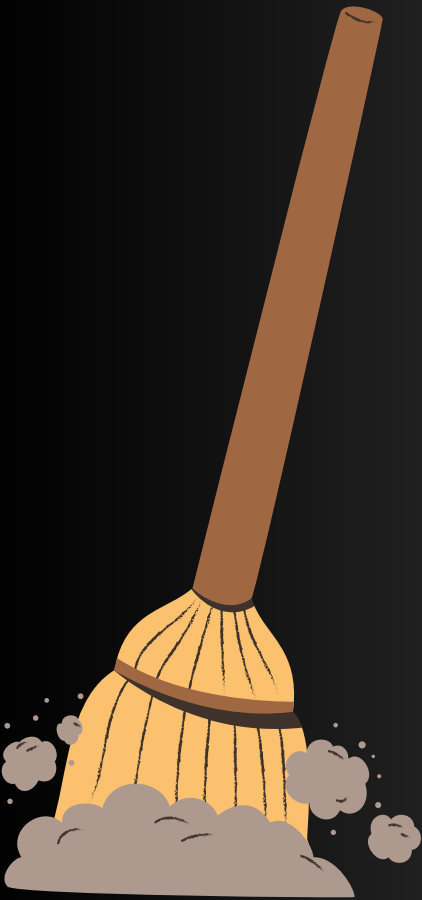
Swachhata Hi Seva 2024

The Swachtha Hi Seva 2024 pledge was taken by students and faculty members at TEL CENTER, NIT, Arunachal Pradesh-791113.

Ek Ped Maa Ke Naam

Event Coordinator- Mrs Yang Saring
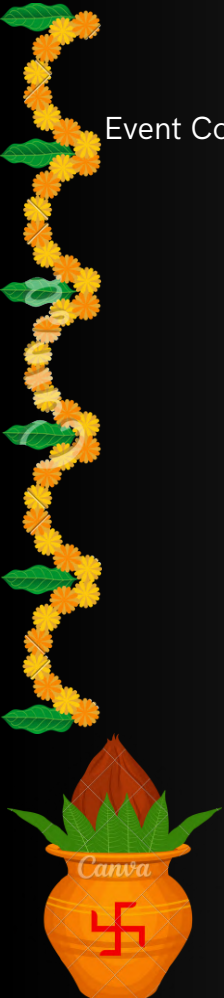Total participants – 17 Students, 4 Faculties and 1 Staff

Viswakarma Puja and Swactha 2024

Event Coordinator- Dr. (Mrs) Manjula D Ghatak, Faculty, Mechanical Engineering, NIT, Arunachal Pradesh

Rangoli competition

Event Coordinator- A. Vanav Kumar, Faculty, Department of Basic and Applied Science, NIT, Arunachal Pradesh

24, September 2024
6:45 to 7:15 am
Cleanliness drive carried out near Staff quarters, NIT, Arunachal Pradesh

Tree plantation drive was carried out during morning hours of 30, September 2024 in the neighborhood of Staff Quarters, NIT, Arunachal Pradesh, Jote campus, Arunachal Pradesh-791113. Faculty members and Staff members joined the activity with enthusiasm. Faculties and Staff members will carry forward the activity by planting trees in the days to come.

Safaimitra activity was initiated to check up the medical health of the House keeping staffs. The Medical doctor Dr. Taba Noni , Medical unit incharge Dr. S. Maity and Medical supporting staff participated in the activities.
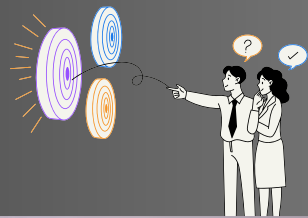
SUPPORT

The Medical Unit has organised a seminar in collaboration with North Eastern Development Finance Corporation Ltd. and Zublee Foundation on " Deceased Organ Donation" as a part of the project VARDAAN on the 24th October 2024.

My name is Chandrashekhar Tripathi, and I belong to the 2020-2024 batch of NIT Arunachal Pradesh. My college journey began in an unexpected way—entirely online due to the COVID-19 pandemic. Like many, I had imagined college as a place to meet friends, attend lectures, and experience campus life firsthand. Instead, I spent the first three semesters of college at home, adapting to a virtual world of lectures, assignments, and exams. But this period held its own surprises and opportunities for growth.

Despite the distance, I managed to make some wonderful friends during those online semesters. We formed study groups, shared laughs, and even had late-night discussions over video calls, making the isolation of virtual learning a bit easier to handle. Through Discord, I connected with college communities beyond my immediate circle, meeting students from other branches and colleges, including IIT Dhanbad and NIT Rourkela.

As I became more immersed in my studies, I sought to expand my knowledge beyond the syllabus. I stumbled upon Harvard's CS50 courses, which turned out to be the perfect introduction to programming. This experience sparked my passion for tech, and soon I was diving into GitHub repositories, particularly the Microsoft "web-dev-for-beginners" repo, which provided a solid foundation in web development. These resources became my gateway to the world of technology, pushing me to further my learning and explore new projects.
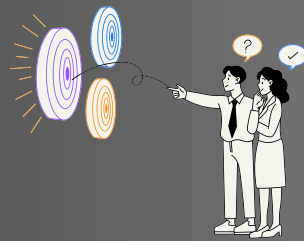
Thanks to my first-year grades, I was able to switch from Electronics and Communication Engineering (ECE) to Computer Science Engineering (CSE) in my second year. Around the same time, I received an email announcing a hackathon at IIT Dhanbad. Motivated by the challenge, I teamed up with friends I had met on Discord from IIT Dhanbad and NIT Rourkela, marking my first experience collaborating outside NIT Arunachal Pradesh. Participating in the hackathon broadened my perspective and gave me exposure to different college cultures.

Our team reunited in my fourth semester to pitch an idea at another hackathon. This time, our hard work paid off—we won first prize! The experience solidified my passion for tech and collaboration, and it showed me the power of teamwork. Building on this momentum, I continued to work on college projects with friends from NIT Arunachal Pradesh. Together, we created applications that would be used across campus, from the Technodaya portal to the Atulyam fest website and an Alumni portal. These projects were more than just technical exercises; they represented our commitment to enhancing college life and contributing to our community.

As my college life came to a close, I realized how much I had gained from exploring every opportunity. College was more than academics—it was a journey of exploration, self-discovery, and growth. Every project, hackathon, and collaboration shaped my skills and ignited my enthusiasm for software development.

Today, I am grateful to be starting my career as a Software Developer at TCS, an opportunity I owe to the Training and Placement (TnP) cell of NIT Arunachal Pradesh. Reflecting on my journey, I know that this achievement is the result of countless hours spent building projects and tackling challenges alongside friends. They were the ones who encouraged me to push my limits and learn something new every day. I would not be here without the support of my friends, parents, and teachers, who guided me and stood by me through every challenge.
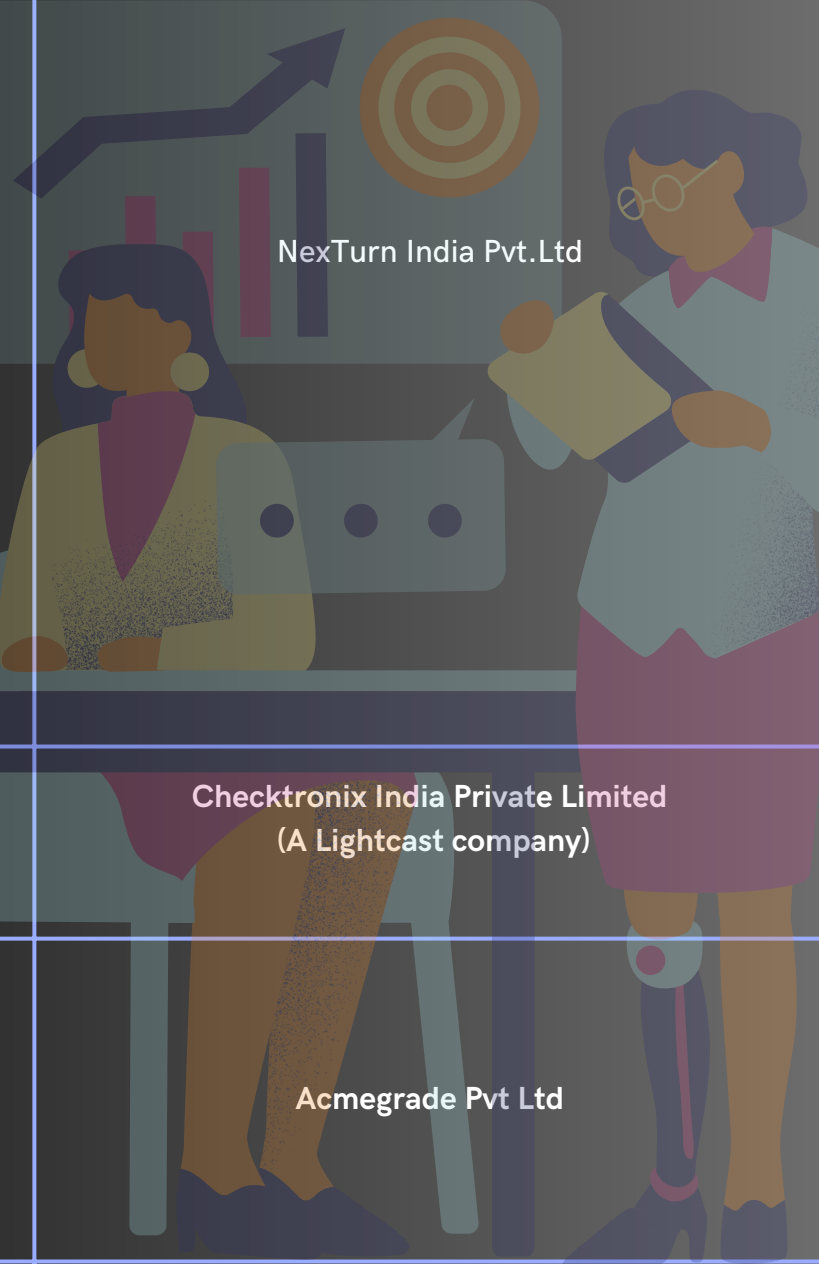
College taught me the importance of stepping outside my comfort zone, exploring new fields, and finding what truly excites me. It has given me the confidence to continue learning and growing, and as I move forward, I carry with me the friendships, lessons, and memories that made these years unforgettable.

Training and Placement Cell

Ms. Vanshika Marwaha Achieves The Record-Highest CTC with Microsoft.
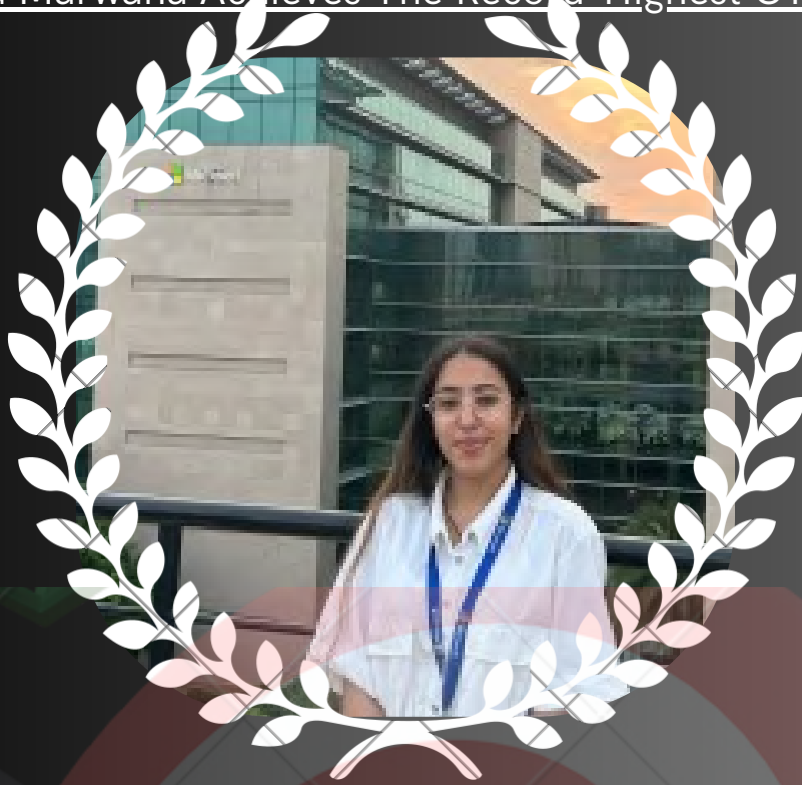
In a historic achievement, Ms. Vanshika Marwaha, a talented student from the National Institute of Technology Arunachal Pradesh (NITAP), has secured the highest-ever annual package of ₹58 lakhs with Microsoft, marking a significant milestone for the institution and the state.

Student Name and Department	Company Name
CSE: • Bina Rai • Harshit Raj • Jaji Vagdhevi Chinta **ECE:** • Ankita Priya **ME:** • Rahul • Dolly Suman	Mu Sigma
CSE: • Keshav Arora • Smrutee Behera • Piyush Randeep • Rakesh Kumar Swain • Penugonda Mukesh • Himanshu Singh • Mudit Rai • Pragya Tiwari • Amit Kumar Shukla • Umanjusha Pandey • Sahil Hussain • Vanshika Marwaha • Gautam Singh • Sakshi Raj • Shivam Kumar • Manasvi Sharma • Ananya Srivastava • Harshit Raj • Praveen Kumar • Shalu Yadav • Vivek Prasad • Shivam Sharma • Shahnaz Hussain • Doi Ngomdir **ECE:** • Prajwal Dilip Deshmukh • Ayush Rathour Raj • Hitesh Gupta • Shivam Gupta	NexTurn India Pvt.Ltd

Student Name and Department	Company Name
ECE: • Vidiyala Namitha Saraswathi Devi • Himanshu Mandal • Aryan Raj • Deepak Baidya • Bendamuri Mohan Rama Naga Sai Manidhar • Bhaskar Lal Das • Ankita Priya • Tanya Sharma • Vishnu Narayan **EE:** • Kesam Reddy Sarath Kumar Reddy • Krishna Kumar Jha • Praful kumar • Puja Kumari • Pankaj Bedwal **ME:** • Saurabh Nath Jha **CE:** • Pratyush Kumar Lal	NexTurn India Pvt.Ltd
ECE: • Debmalya Kuila	Checktronix India Private Limited (A Lightcast company)
CSE: • Riya Pariyar **EE:** • Khyoda Rimam	Acmegrade Pvt Ltd
CSE: • Riya Pariyar	Growth Jockey | Femica
CSE: • Sainath Sajane	Corizo Edutech

Student Name and Department	Company Name
CSE: • Keshav Arora • Sachin Pathak • Ananya Srivastava • Shruti Mishra **ECE:** • Shaini Mohanty • Shivanshu Raj • Mukesh Kumar Pathak • Tanya Sharma • Prajwal Dilip Deshmukh	**UKG** **(Ultimate Kronos Group)**
ECE: • Vangapandu Tagore • Vidiyala Namitha Saraswathi Devi • Muppidi Markandeya Sanjay **CSE:** • Vivekanand Kumar • Riya Pariyar • Champati Eswar Raghu Nadha Varma • Sainath Sajane • Karmo Riba **ME:** • Chandrakanta • Sunny Shaw **CE:** • Dokik Gamlin **EE:** • Harshita Swargiary	**Ediglobe Online Services Pvt. Ltd**
CSE: • Mudit Rai • Manasvi Sharma • Gautam Singh	**Orangewood Labs** **(6 Months Internship)**
CSE: • **Keshav Arora**	**Morgan** **Stanley** **(Off-Campus)**

Student Name and Department	Company Name
CE: • Manuraj Kumar **EE:** • Akanksha Kumari	Oda Class (Pigeon Education Technology)
CSE: • Harshit Raj • Amit Kumar Shukla • Penugonda Mukesh **CE:** • Pratyush Kumar Lal	Deloitte US-India Offices

TESTIMONIAL FROM DR. S. N. PANDEY PROFESSOR & HEAD, DEPARTMENT OF PHYSICS MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD

S.N. Pandey FACULTY   Oct 21, 2024, 12:25 PM

to me

Dear Sir,

I have gone through this issue of Technodya. It is a very informative one. The cover page is praise worthy. Further, the placement cell is working hard to increase the campus selection.

All the best,

S. N. Pandey

Dr. S. N. Pandey

Professor & Head, Department of Physics

Motilal Nehru National Institute of Technology Allahabad

Prayagraj -211 004, India.

Author Workshop cum User awareness Session on 19th, September 2024, Dr Nitin Ghoshal, PhD, Customer Success Manager- South Asia ELSEVIER: A Division of RELX India Pvt. Ltd. gave presentation to the NIT, Arunachal Pradesh fraternity on the fineness and minute details in writing, documentation, and publishing of articles in Elsevier journals. Prof. Dr. Mohan V Aware, Director, NIT, Arunachal Pradesh was the Chief Patron of the event. Mr Mohit Kumar De and Dr. A. Vanav Kumar, coordinated the event.
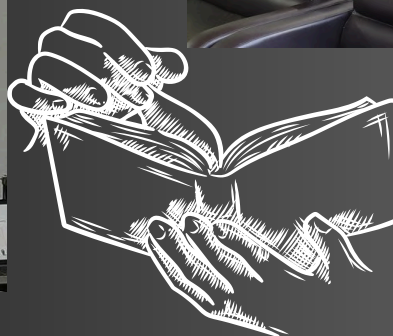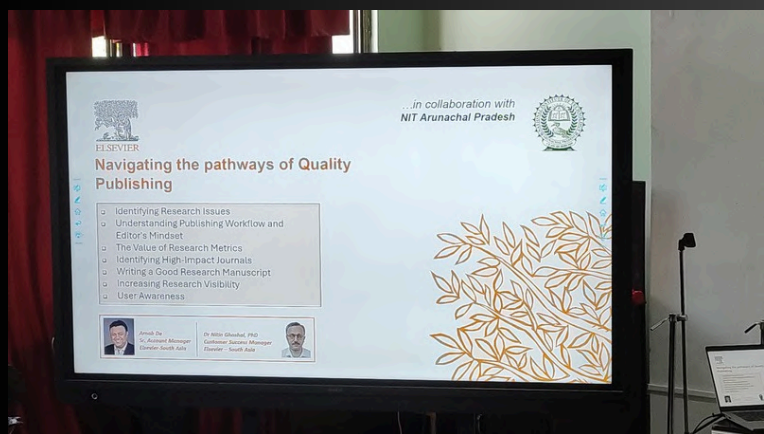
Vigilance Awareness Week 2024
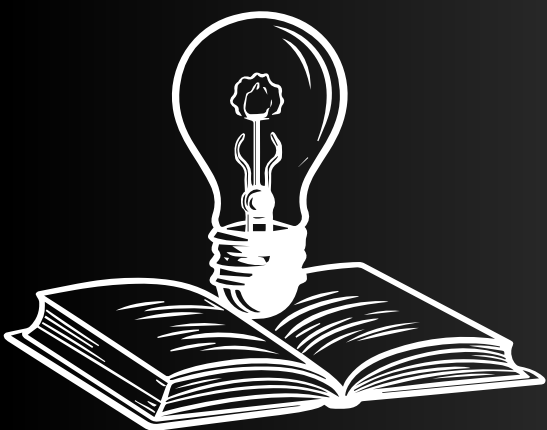
Never underestimate the power of kindness, empathy, and compassion in your interactions with others

If you want to walk fast walk alone But if you want to walk far walk together

Don't wait for opportunities to come to you create your own opportunities

Be humble in victory and gracious in defeat

Your attitude not your aptitude will determine your altitude