



VOL-VII, ISSUE 1

TECHNODAYA

BI-MONTHLY NEWSLETTER

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DIRECTOR'S MESSAGE

Technodaya, Volume- VII, Issue- 1 is published and brought to your notice. During the last two months (January-February, 2024), our faculty members and officers have contributed exemplary progresses of advancements in many academic, research and outreach activities standing out as landmarks in our mission of pursuit of overall excellence in technical education. My whole-hearted wishes and congratulations to all who are involved directly and indirectly in the achievements, some of which are Academic Infrastructure Dedication to the nation by Hon'ble Prime Minister of India, Shri Narendra Modi, Advanced Entrepreneurship Skill Development Programme, International Conference on the History of Mathematics (ICHM), research papers, book chapters and patent in International/National Journals/Conferences, and so on. As outreach activities, Promotion of Pariksha Pe Charcha 2024 was organized.



Prof. Ram Prakash Sharma
Director (i/c)
NIT Arunachal Pradesh

With Best Wishes!

EDITOR-IN-CHIEF'S MESSAGE



I am very happy to compose this issue of TECHNODAYA. I thank my editors Mr. Ashok. R, Research Scholar, Dept. of ME, Ms. Vanshika Marwaha, Mr. Rupom Nandi, Mr. Aaryan, Mr. Keshav Arora, and Mr. Omsubhra Singha, B.Tech NITAP for their design and suggestions. Special thanks to my colleagues for their valuable comments to make this edition more perfect. Further I invite all students, alumni, faculty members, officers, supporting staff and various stakeholders associated with NIT Arunachal Pradesh to support us and send news to technodaya@nitap.ac.in or newsletternitap@gmail.com.

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INSTITUTIONAL ACTIVITIES

Dedication NIT Arunachal Pradesh Infrastructure to the nation by Hon'ble Prime Minister of India, Shri Narendra Modi at NIT Arunachal Pradesh Jote campus with the august presence of Hon'ble Minister of Earth Sciences Shri Kiren Rijju, Hon'ble MLA Shri Tana Hali Tara and Prof. Ram Prakash Sharma, Director, NIT Arunachal Pradesh.

ENTREPRENEURSHIP SKILL DEVELOPMENT



ORGANISED BY DR. A. VANAV KUMAR

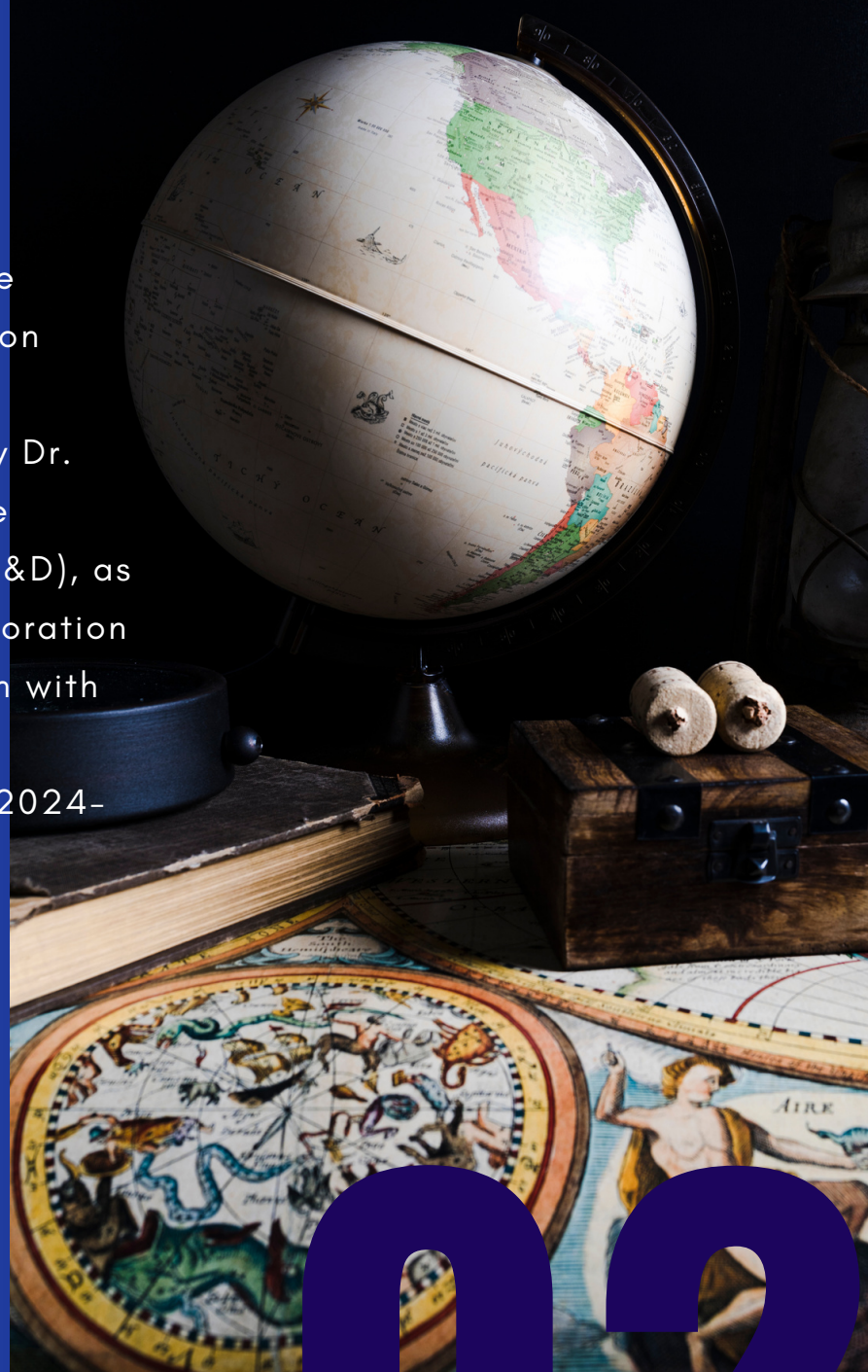
Advanced Entrepreneurship skill development programme on setting up of hydroponic system on "Entrepreneurship skill development" was organized by A Vanav Kumar, Associate Professor, Department of Basic and Applied Science, in collaboration with Ministry of Micro, Small & Medium Enterprises, Government of India, at National Institute of Technology, Arunachal Pradesh, from 2024-02-22 to 2024-02-28.

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ACADMIC ACTIVITIES

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

International Conference on the History of Mathematics (ICHM) on "Astronomy and ancient Indian mathematics" was organized by Dr. Nabakumar Pramanik, Associate Professor in Chemistry, Dean (R&D), as Organizing Secretary, in collaboration with IIT Guwahati in association with NIT Arunachal Pradesh, at IIT Guwahati, from 2024-01-19 to 2024-01-21.



RESEARCH & DEVELOPMENT

RESEARCH PAPERS

Das, Abinash. Ringu, Togam. Ghosh , Sampad. Pramanik, Nabakumar. (2024). High efficacy fluconazole loaded ZnO-Poly (vinyl alcohol) nanocomposite: Interpretive breakpoints for biological applications. *Journal of Vinyl and Additive Technology*, Article ID: VNL_22098. DOI: 10.1002/VNL.22098

Dutta, Debjit. Kolay, Debaditya. Pradhan, Debprasad. (2024). Time-fractional Boussinesq equation for heavy-nucleus-acoustic wave excitations in highly dense relativistically degenerate quantum plasmas. *Chinese Journal of Physics (SCI Journal. IF: 5.1)*. <https://doi.org/10.1016/j.cjph.2024.02.001>

Partha Pratim , Gogoi. Maity, Susanta. (2024). Thermocapillary thin film flow upon a porous heated stretchable cylinder. **Heat Transfer * 53(1), 73-96.* <https://doi.org/10.1002/htj.22942>

Gogoi, Partha Pratim. Maity , Susanta. Singh, Shailendra Kumar. (2024). Two layer film flow on an unsteady stretching cylinder. *Chinese Journal of Physics* 88, 722-739. <https://doi.org/10.1016/j.cjph.2024.02.013>

Majumder, Sani. Nielsen, Izabela. Maity, Susanta.Saha, Subrata. (2024). Perspectives of two competing manufacturers: customer rebate vs. contract mechanism. *Journal of Modelling in Management* 19(2), 581-604. <https://doi.org/10.1108/JM2-11-2022-0260>

Kumar, A. Vanav. Unsteady fractional time derivative of nanofluid past a stretching sheet with time varying temperature and concentration [Paper presentation]. International Conference on Emerging Frontiers in Nonlinear Complex Systems, Computational Intelligence and their Applications 2024 (ICNCS 2024), Division of Mathematics, School of Advanced Sciences Vellore Institute of Technology, Chennai, Vandalur Kelambakkam Road, Chennai 600127, Tamil Nadu, India., from 2024-02-07 to 2024-02-09.

Saha, U. K..Kaliyappan, M..Kumar, A. Vanav. Fractal fractional unsteady time derived Casson fluid flow past the parallel plates with top plate oscillating in the direction of flow [Paper presentation]. International Conference on Emerging Frontiers in Nonlinear Complex Systems, Computational Intelligence and their Applications 2024 (ICNCS 2024), Division of Mathematics, School of Advanced Sciences Vellore Institute of Technology, Chennai, VandalurKelambakkam Road, Chennai 600127, Tamil Nadu, India., from 2024-02-07 to 2024-02-09.

Jino, Lawrence.Berlin, Mohanadhas. Natarajan, Narayan. Vanav Kumar, Alagarsamy. Vasudevan, Mangottri. Numerical analysis on the transport of TiO₂ nanoparticles in fractured porous media [Paper presentation]. International Conference on Trends in Chemical, Energy and Environmental Engineering, ChemEEE-2024, Indian Institute of Petroleum and Energy, Visakhapatnam, from 2024-02-19 to 2024-02-21.



FACULTY EMPOWERMENT PROGRAMS

A. Vanav Kumar, Associate Professor, Department of BAS attended FDP on "National Workshop on Research, Innovation and Entrepreneurship in Technology Education: NEP 2020", organised by National Institute of Technology, Surat, from 2024-02-10 to 2024-02-11.

A. Vanav Kumar, Associate Professor, Department of Basic and Applied Science attended FDP on "Five-Day FDP on Fuzzy Mathematics: A Journey into the World of Uncertainty", organised by Vellore Institute of Technology, Chennai, from 2024-01-20 to 2024-01-24.

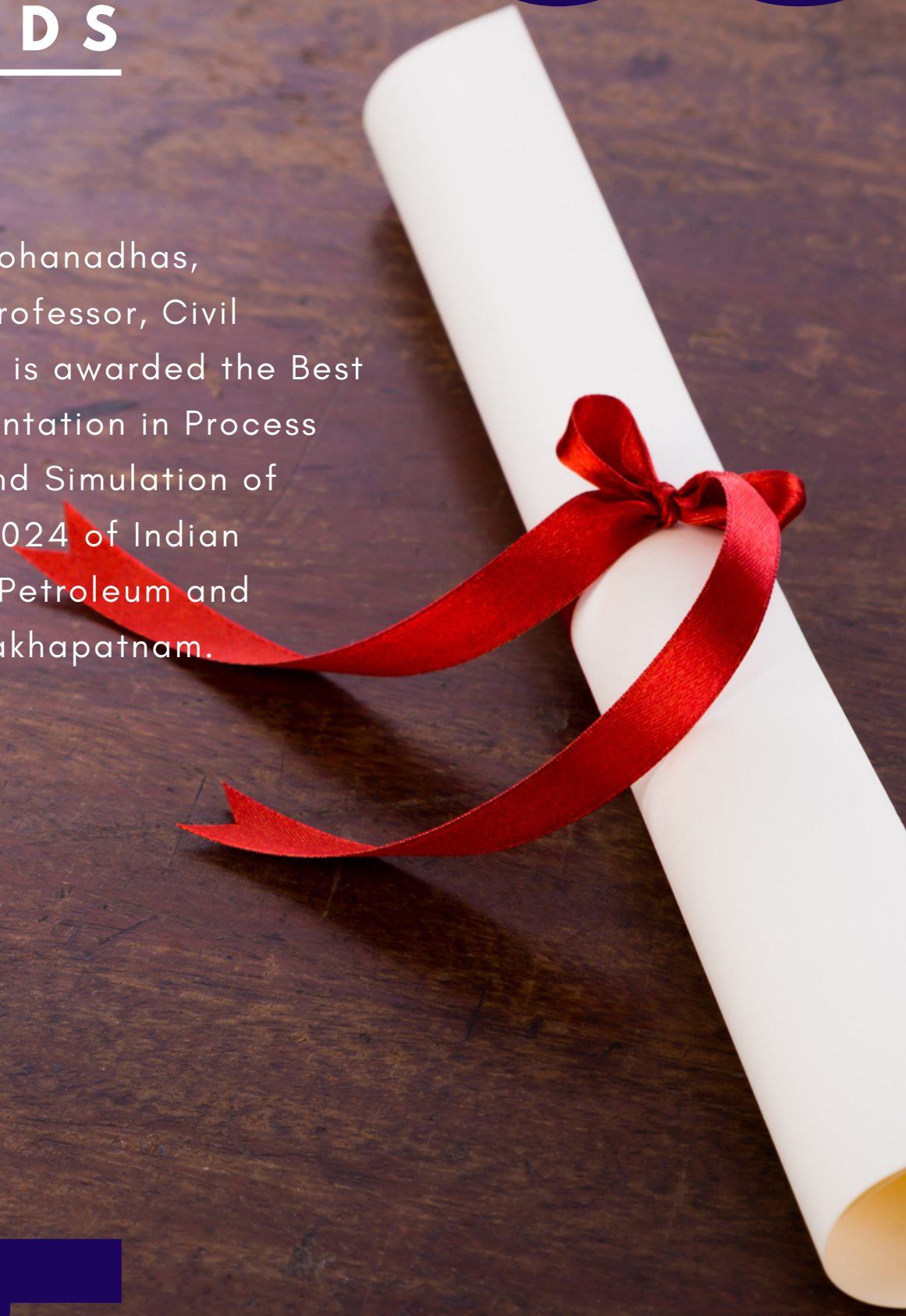
A. Vanav Kumar, Associate Professor, Department of Basic and Applied Science attended FDP on "Five-Day FDP on Fuzzy Mathematics: A Journey into the World of Uncertainty", organised by Vellore Institute of Technology, Chennai, from 2024-01-20 to 2024-01-24.



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A W A R D S

Dr. Berlin Mohanadhas,
Associate Professor, Civil
Engineering is awarded the Best
Paper Presentation in Process
Modeling and Simulation of
ChemEEE-2024 of Indian
Institute of Petroleum and
Energy, Visakhapatnam.



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OUTREACH ACTIVITIES

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PAINTING COMPETITION ON THEME 'EXAM WARRIORS' - 22.01.2024

BY NIT ARUNACHAL PRADESH

Promotion of Pariksha Pe Charcha 2024 was organised by Dr. K. Vijayakumar, Assistant Professor, MH Department, Dr. Kartick Mondal, Assistant Professor, CHE Department, and Dr. Ralli Sangno, Assistant Professor, EE Department, NIT AP, in collaboration with EBSB CELL, NIT AP. A painting competition on the theme 'Exam Warriors' was organized to promote 'pariksha pe charcha 2024' at Govt. Sec .School Jote on 22.01.24. Prizes for the winners were also distributed and encouraged students to participate 'pariksha pe charcha 2024 interaction with The Honorable Prime Minister Narendra Modi'.

Winner's of the competition: First Prize: Shri. Nabam Loma (Class-VIII) Second Prize: Tadar Martha (IX) Third Prize: Nyurang Chukhung (IX) Consolation Prizes: 1. Ms. Kipa Jarming (VII) 2. Ms. Mallo Rani (IX) 3. Ms. Teli Liya (IX) 4. Shri. Langda Nanu (IX) 5. Tadar Toha (IX), 2024-01-22.

GOVERNMENT DEVELOPMENT SCHEMES EXPO-2024

Dr. Nabakumar Pramanik participated in the Outreach Activity, Government Development Schemes Expo-2024 was organised by Bharat Events Pvt. Ltd., New Delhi on the Concurrent Event 'Organic Agricultural & Dairying Industry Expo-2024, from 2024-02-07 to 2024-02-09.

REPUBLIC DAY CELEBRATION 2024

Republic Day Celebration 2024: India's 75th Republic Day on 26th January 2024, was celebrated at NITAP, Yupia. Prof.

Ram Prakash Sharma, Director (i/c), NITAP hoisted National Flag and delivered Republic Day speech.



CREDITS

FRONT PAGE PHOTO CREDIT

A momentous event for Arunachal Pradesh, as 77th Santosh Trophy National Football Championship-2024 recently hosted by the Arunachal Pradesh Football Association (APFA) at Golden Jubilee Stadium, Yupia, Itanagar, Arunachal Pradesh. With this, Arunachal became the first northeastern state to host the final round of the championship. Photo Credit: the Arunachal Pradesh Football Association (APFA).

