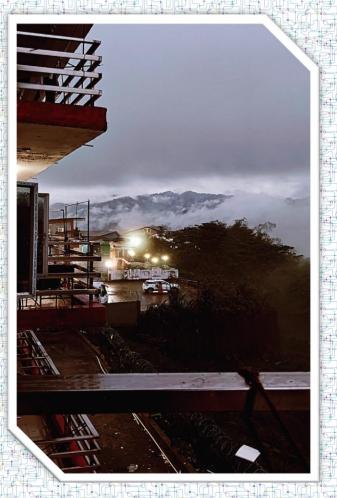




# TECHNODAYA









The bi-monthly newsletter of NIT Arunachal Pradesh

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# NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH

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# **Director's Message**



Prof. Pinakeswar Mahanta Director NIT Arunachal Pradesh

Greetings!

Technodaya, Volume-V, Issue- 2 is published and brought to your notice. During the last two months (March– April, 2022), 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 01 External Funded Project to organize Summer School, Consultancy Works, National/International Conferences and Seminars, AICTE sponsored online Short Term Training Programme, 15 Day Yoga Training Programme, Teacher's Enrichment Workshops, 12 research papers in International/National Journals/Conferences, and so on. As outreach activities, Celebration of International Women's Day and Lecture Series of the Institution's Innovation Council (IIC) were organized.

With Best Wishes!

Prof. Pinakeswar Mahanta Director NIT Arunachal Pradesh TECHNODAYA, NATIONAL INSTITUTE OF TECHNOLOGY ÅRUNACHAL PRADESH- MARCH-APRIL 2022

알까 봐는 그 밖에운 이렇게 새 눈 그 밖에운 이렇게 새 옷 그 밖에운 이렇게 잘 들어온 이렇게 하는 것 때 새 문 그 밖에운 이렇게 하는 것 때 새 눈 그 밖에운 이렇게 하는 것 때 새 눈 그 밖에운 이렇게 하는 것 때 새 눈 것 때 생각 것 같아.

# Editor-in-Chief's Message



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

I am very happy to compose this issue of TECHNODAYA. I thank my co-editors Dr. Shubhajit Das, Assistant Professor, and Mr. Ashok. R, Research Scholar, Dept. of ME for their support 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.

# **Editorial Board**

Chairman Prof. Pinakeswar Mahanta Director NITAP

Editor-in-Chief Dr. K. Vijayakumar Assistant Professor Dept. of M&H <u>Editor</u> Dr. Shubhajit Das Assistant Professor Dept. of ME

<u>Co-Editor</u> Mr. Ashok. R Research Scholar Dept. of ME

# **Academic Activities**

#### Chief Guest at Sonabyss 2021 -22, NERIST

 Prof. Pinakeswar Mahanta, Director, NITAP participated as a Chief Guest and delivered a special keynote address in Sonabyss, organized by The Recreational and Creative Activities Forum (RACAF), NERIST, Arunachal Pradesh, 30 April -02 May 2022.



Photo: Chief Guest at Sonabyss 2021-22

### Invited/ Expert Lectures:

- Dr. S. N. Deepa, Associate Professor, Department of Electrical Engineering, delivered technical lecture on "Deep Learning and its application in Bio-Medical Image Processing" in an Online Faculty Development Programme on Biomedical Image Processing :Issues, Challenges & Techniques Organized by Dept. of EEE, JCT College of Engineering and Technology, Coimbatore on 1<sup>st</sup> March 2022.
- Dr. S. N. Deepa, Associate Professor, Department of Electrical Engineering, delivered technical lecture on was a resource person at the National Level Hands on Workshop on "Deep Learning Models for Medical Image Processing Applications" organized by Dept.

of ECE, Dr. NGP Institute of Technology, Coimbatore on 12<sup>th</sup> April 2022 and handled hands-on training session on "Modelling deep learning techniques for various medical image processing application".

- 3. Dr. Nabakumar Pramanik, Assistant Professor, Department of CHE, an Invited Talk entitled 'Drug encapsulated hydroxyapatite nanoparticle and its nanocomposite with polymer for remedies applications' as an Invited Speaker in the Workshop (Hands-on Training Programme) on 'Hands-on training on Herbal Tablets, Capsules and Syrup Making" on 24/3/2022 sponsored by NECTAR, organized by Department of Biotechnology, NIT, Arunachal Pradesh, 22-24 March 2022.
- 4. Dr. Ram Prakash Sharma, Associate Professor, Department of Mechanical Engineering delivered expert lecture on 'Fundamentals on Fluid Flow and Heat Transfer of Nano Fluids' in the International Conference on Recent Trends in Applied Mathematics (ICRTAM-2022) organized by Department of Mathematics, Loyola College, Chennai, India, 03 – 04, March 2022.
- 5. Dr. Shubhajit Das, Assistant Professor, Department of Mechanical Engineering was invited as an expert to mentor 5 students who have qualified for participation in the National Level Exhibition and Project Competition (NLEPC) for the session 2020-21 from the state of Arunachal Pradesh under INSPIRE awards MANAK, a flagship program of the Department of Science and Technology (DST), GoI on 12th April 2022 at Science Centre, Arunachal Pradesh State Council for Science and Technology, IG Park, Itanagar.

# Page | 3 TECHNODAYA, NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH- MARCH-APRIL 2022

# Eminent Professor's Visit at NITAP

Dr. Pulak Kumar Munsi, Ex-Director, M. N. Dastur & Company (P) Limited, Kolkata has joined as Adjunct Professor in the Department of Civil Engineering, NITAP.



Photo: Dr. Pulak Kumar Munsi

Workshop/EDP/FDP/Seminar/Conference/Webinar:

 Dr. Shubhajit Das, Assistant Professor, Department of Mechanical Engineering, NIT Arunachal Pradesh conducted one week AICTE sponsored online Short Term Training Programme (STTP) on 'Design Thinking & Rapid Prototyping: An Entrepreneurship and Startup Approach' from 22-26March, 2022 as coordinator at NIT Arunachal Pradesh, Jote campus.



Photo: STTP on 'Design Thinking & Rapid Prototyping: An Entrepreneurship and Startup Approach'

 Dr. Ram Prakash Sharma, Associate Professor, Department of Mechanical Engineering, organized 15 Days Yoga Training Programme on Common Yoga Protocol (CYP), National Institute of Technology, Arunachal Pradesh, Jote, 09-24, April 2022.

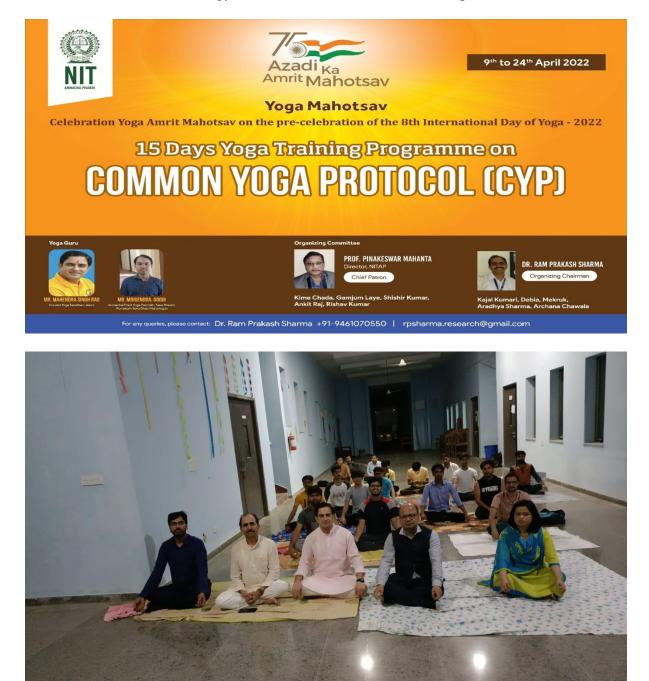


Photo: Yoga Training Programme at NIT Jote Campus

#### Page | 5 TECHNODAYA, NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH- MARCH-APRIL 2022

 Dr. Ram Prakash Sharma, Associate Professor, Department of Mechanical Engineering, organized 5 Day National Workshop on Yoga, National Institute of Technology, Arunachal Pradesh, Jote, 10-14, April 2022.

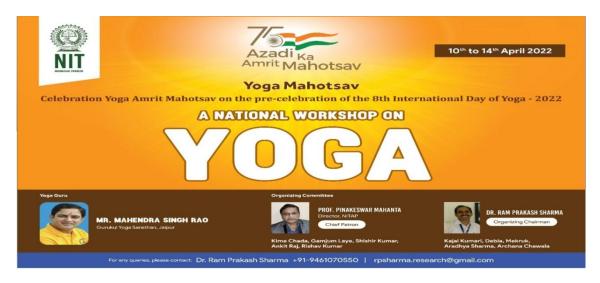




Photo: 5 Day National workshop on Yoga

 Dr. Ram Prakash Sharma, Associate Professor, Department of Mechanical Engineering, organized Teacher's Enrichment Workshop-(TEW) on Partial Differential Equations in collaboration with the National Centre for Mathematics-(NCM), Mumbai 17, February -13, March 2022.



Photo: Teacher's Enrichment Workshop

# **Research and Development**

#### External Funded Projects:

 Dr. Deepak Gupta, Assistant Professor, Department of Computer Science and Engineering received a grant of USD 8000 from IEEE to organize the IEEE CIS Summer School 2022 at NIT Arunachal Pradesh, India.

#### Consultancy Works:

 Dr. Mainak Mallik, Associate Professor, Department of Civil Engineering carried out a consultancy work on Preparation of Mix design report for the Construction of Residential Buildings from ITBP -NE Frontier HQ.

#### Paper Publication/Presentation:

 Kannan.K.S., Sunita.G. and Deepa.S.N., "A Multi-Objective Autonomic Load balancing and Minimizing Power Consumption in Cloud Datacenter by Micro-Genetic Cat Swarm Optimization Algorithms", ELSEVIER – Computers and Electrical Engineering, SCIE, Scopus and Web of Science Indexed, ISSN – 0045 – 7906, IF – 3.818, Accepted for Publication on March 24<sup>th</sup> 2022.

- A. Das, T. Ringu, and N. Pramanik, "An updated overview on zinc oxide nanoparticles (ZnO NPs): Properties and advanced biomedical applications," International Conference on Technological Interventions for Sustainability (CHEM-CONFLUX22) Jointly organized by MNNIT, Allahabad, India and University Sains Malaysia (USM), Malaysia, April 14-16, 2022.
- 3. A. Vanav Kumar, "Fractional time derivative investigation of flow past a time dependent motion of vertical plate having oscillatory temperature and time varying concentration", Second International Conference on Applied Mathematics in Science and Engineering, March, 24-26, 2022, organized by Centre for Data Science Siksha 'O' Anusandhan (Deemed to be University) Bhubaneswar–751030 Odisha, India (https://drive.google.com/file/d/1xBHeiGvNG1icJw9I9PKjnNmbwpkFB7s4/view?usp=s haring).
- 4. Ajay Kumar Singh, Ajay Yadav, Arasad Ali Khan, Sahadev Roy, Hira Lal Yadav, "Design and Analysis of Holographic Optical Elements for their use as Couplers with Appreciable Efficiency at Different Optical Transmission Windows," Optik (Science Citation Index)
- Sudipta Chatterjee, Sahadev Roy, "Hybrid Control Slope Assisted Wheelchair for the Person with Lower Limb Disabilities for Hilly Regions," International J. of System of Systems Engineering. (Scopus).
- Kaushal Mukherjee, Subhadeep Mukhopadhyay, Sahadev Roy, "Design of Wideband Planar Antenna with Inverted I- Shaped Tuning Stubs for Application in 5G, Satellite Communication and IoT," International Journal of Communication Systems, 2022. DOI: 10.1002/DAC.5191. (Science Citation Index Expanded)

#### Page | 8 TECHNODAYA, NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH- MARCH-APRIL 2022

- Yadav, Ajay, Amit Prakash, Ajay Kumar, Sahadev Roy, "Design of remote-controlled land mine detection troops safety robot." Materials Today: Proceedings (Scopus).
- Aditya Roy, Subhadeep Mukhopadhyay, Sahadev Roy, "IoT Based Real-Time Spring Water Quality Monitoring System," The first International Conference on the Paradigm shifts in Communication, Embedded Systems,, Machine Learning and Signal Processing, [PCEMS 2022] will be held at Visvesvaraya National Institute of Technology, Nagpur, India on 6th & 7th May, 2022 IEEE (Scopus)
- Aditya Roy, Sahadev Roy, Subhadeep Mukhopadhyay, "IoT Based Real-Time Water Quality Monitoring System," The second International Conference on Computer Science, Engineering and Applications [ICCSEA-2022] will be held at Department of Computer Science and Engineering, GIET University, Gunupur-765022, Odisha, India, on 8th September 2022, IEEE(Scopus).
- 10. Kaushal Mukherjee, Sahadev Roy, Subhadeep Mukhopadhyay "A SISO Y-Shape Antenna for Intelligent Transportation Systems". The second International Conference on Computer Science, Engineering and Applications [ICCSEA-2022] will be held at Department of Computer Science and Engineering, GIET University, Gunupur-765022, Odisha, India, on 8th September 2022, IEEE(Scopus).
- Ram Prakash Sharma and Sachin Shaw, MHD non-Newtonian fluids flow past a stretching sheet under the influence of non-linear radiation and viscous dissipation, Journal of Applied and Computational Mechanics (JACM), J. Appl. Comput. Mech., 8(3) (2022) 949-961 DOI: 10.22055/JACM.2021.34993.2533, ISSN No.- 2383-4536, I.F.-1.40, H-Index-11. ESCI (Web of Science).

 Ram Prakash Sharma; Om Prakash; I. Rashidi; S. R. Mishra; P. S. Rao; F. Karimi, Nonlinear Thermal Radiation and Heat Source Effects on Unsteady Electrical MHD Motion of Nanofluid past a Stretching Surface with Binary Chemical Reaction, The European Physical Journal Plus, Eur. Phys. J. Plus (2022) 137:297 https://doi.org/10.1140/epjp/s13360-022-02359-6 (2 March 2022)

#### Faculty Empowerment Programmes:

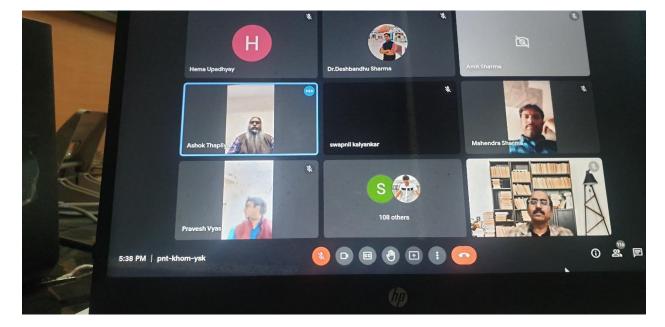
- Dr. Shubhajit Das, Assistant Professor, Department of Mechanical Engineering participated in "IP Awareness/Training program" under National Intellectual Property Awareness Mission on 26<sup>th</sup> April, 2022 organized by Intellectual Property office, India.
- Dr. S. N. Deepa, Associate Professor, Department of Electrical Engineering attended on the topics "Workshop: Web of Science Core Collection Basic and Advanced Search" and "Research Smarter: Weighted evaluation of publications" organized by Clarivate Analytics. March 15<sup>th</sup> 2022 and March 24<sup>th</sup> 2022(respectively).
- Dr. Nabakumar Pramanik, Assistant Professor, Department of CHE attended Workshop (Hands-on Training Programme) on 'Hands-on training on Herbal Tablets, Capsules and Syrup Making" sponsored by NECTAR, organized by Department of Biotechnology, NIT, Arunachal Pradesh, 22–24 March 2022.
- Dr. A. Vanav Kumar, Assistant Professor, Department of Basic Applied and Science, attended online FDP on 'Medical Image & Signal Processing using Python - MIS2P'22', A 6 days National Level Hands-on Virtual Workshop, IEEE Computer Society of Vizag Bay Section, Sasi Institute of Technology & Engineering(A), 07 - 12 March, 2022.

- Dr. A. Vanav Kumar, Assistant Professor, Department of Basic Applied and Science, attended online FDP on 'Big Data Analytics', E&ICT Academy, NIT Patna in collaboration with EarlyRise (A Unit of Xdigics Tech. Pvt. Ltd.), 18 - 29 April 2022.
- Dr. A. Vanav Kumar, Assistant Professor, Department of Basic Applied and Science, attended online workshop titled 'Python Workshop on Engineering Mathematics', School of Advanced Sciences, VIT - Chennai, 02, April 2022.
- Dr. Sahadev Roy, Assistant Professor, Department of Electronics and Communication Engineering, acted as Session Chair at the 1<sup>st</sup> International Conference Human-Centric Smart Computing (ICHCSC 2022) will be held in New Delhi, India on 27-29, April 2022, organized by the University of Engineering & Management, Jaipur, India.
- Dr. Ram Prakash Sharma, Associate Professor, Department of Mechanical Engineering attended in conference/meeting of Bhartiya Shikshan Mandal on Implementation of National Educational Policy (NEP) 2020 on 29-30 April 2022 at Visvesvaraya Technological University, Belagavi, Karanataka, India.



Photo: Conference on NEP

- Dr. Ram Prakash Sharma, Associate Professor, Department of Mechanical Engineering attended in the honor of Professor Amitabha Ghosh online lecture series on evolution of classical mechanics and symposium on Engineering Pedagogy, 05-20, March 2022.
- 10. Dr. Ram Prakash Sharma, Associate Professor, Department of Mechanical Engineering<br/>attended in the श्रीलालबहादुरशास्त्रीराष्ट्रीयसंस्कृतविश्वविद्यालय,<br/>नईदिल्लीकेवास्तुशास्त्रविभागद्वारानवीकरणकार्यक्रमकेअन्तर्गत<br/>आयोजितविशिष्टव्याख्यानमालाकाप्रथमव्याख्यानप्रो. रामचन्द्रपाण्डेय, राष्ट्रपतिपुरस्कारसम्मानित,<br/>पूर्वसंकायप्रमुख, संस्कृतविद्याधर्मविज्ञानसंकाय, काशीहिन्दूविश्वविद्यालय, वाराणसीद्वारादिनांक 03<br/>मार्च 2022 कोसायंकाल 05 बजे



# **Awards and Achievements**

 Dr. Shubhajit Das, Assistant Professor, Department of Mechanical Engineering was the external examiner for the B.Tech 7<sup>th</sup> semester Project-I Examination held at Girijananda Chowdhury Institute of Management & Technology, Guwahati, Assam on 16, Mar 2022.

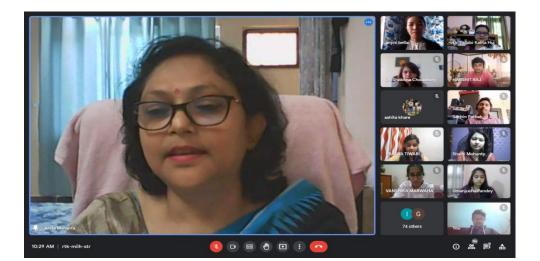
- Dr. Shubhajit Das, Assistant Professor, Department of Mechanical Engineering was the external examiner for the M.Tech3<sup>rd</sup> semester Project Examination held at Girijananda Chowdhury Institute of Management & Technology, Guwahati, Assam on 17, March 2022.
- 3. Dr. S. N. Deepa, Associate Professor, Department of Electrical Engineering was a *Reviewer* of Expert Systems with Applications, ELSEVIER, 01 March 2022.
- 4. Dr. S. N. Deepa, Associate Professor, Department of Electrical Engineering was a *Reviewer* of Knowledge Based Systems, ELSEVIER, 18 April 2022.
- 5. Dr. S. N. Deepa, Associate Professor, Department of Electrical Engineering was a *Reviewer* of Expert Systems with Applications, ELSEVIER, 18 April 2022.
- Dr. Nabakumar Pramanik, Assistant Professor, Dept. of CHE was a *Reviewer* of Polymer Bulletin, Springer Nature Publications.
- 7. Dr. A. Vanav Kumar, Assistant Professor, Department of Basic Applied and Science was a *Reviewer* of Far East Journal of Mathematical Sciences.
- Dr. Ram Prakash Sharma, Associate Professor, Department of Mechanical Engineering, was a *Reviewer* of Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, Publisher: SAGE Publications Ltd, 25, March 2022.
- Dr. Ram Prakash Sharma, Associate Professor, Department of Mechanical Engineering, was a *Reviewer* of Indian Journal of Physics, Publisher: Indian Physical Society, 15, March 2022.
- 10. Dr. Ram Prakash Sharma, Associate Professor, Department of Mechanical Engineering, was a *Reviewer* of Scientific Reports, Publisher: Nature Publishing Group, 20, Apr 2022.

- Dr. Ram Prakash Sharma, Associate Professor, Department of Mechanical Engineering, was a *Reviewer* of Journal of Computational Mathematics and Data Science, Publisher: ELSEVIER Publishing, 20, April 2022.
- Dr. Ram Prakash Sharma, Associate Professor, Department of Mechanical Engineering, was a *Reviewer* of International Journal of Applied and Computational Mathematics, Publisher: Springer Publishing Group, 27, April 2022.

# **Outreach Activities**

#### Celebration of International Women's Day:

Dr. Ram Prakash Sharma, and Dr. Pallavi Kalita Hui, organized National Seminar to celebrate "International Women's Day" under the umbrella of Gandhi Study Centre NITAP on the occasion of 75 Azadi ka Amrit Mahotsav (75<sup>th</sup> Anniversary of Independence) on 8<sup>th</sup> March 2022.



Page | 14 TECHNODAYA, NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH- MARCH-APRIL 2022

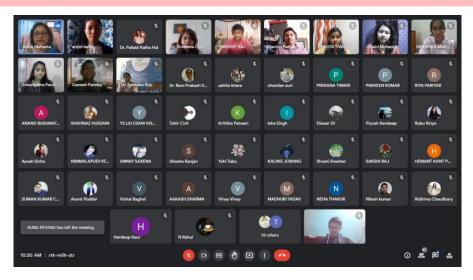


Photo: International Women's Day

#### IIC/Startup Cell NIT Arunachal Pradesh:

 Dr. Sahadev Roy, Assistant Professor, Department of Electronics and Communication Engineering, organized TePP Outreach cum Cluster Innovation Centre at IIT Guwahati, Expert Prof. Sukhomay Pal, Coordinator, TOCIC IIT Guwahati in association with NIT Arunachal Pradesh, Jote, Arunachal Pradesh, on 25th March 2022. Winner of DSIR-PRISM Scheme and Startup & Entrepreneurship Developments Competition were JACINTA JYRWA (Cash Award Rs. 3000.00), Aditya Roy (Cash Award Rs. 2000.00), and Jnaneswar Rama Santosh Kalluri (Cash Award Rs. 1000.00).

# **Student Activities**

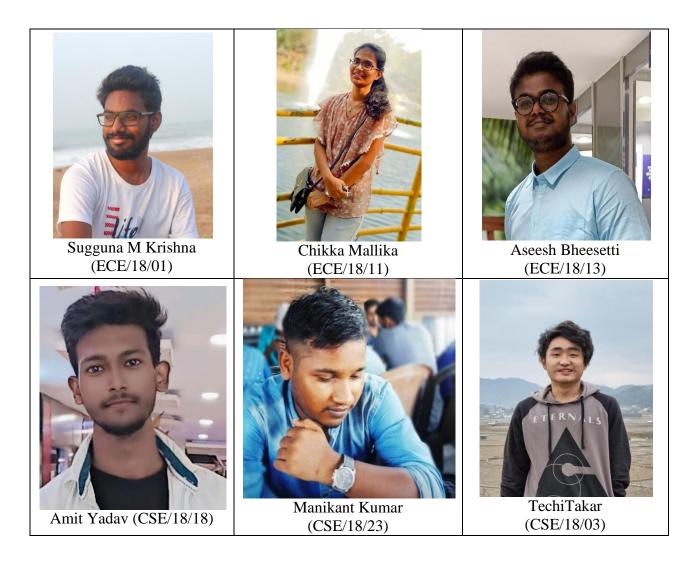
#### PhD Defense:

 L. Jino, PhD(MATH)/2018/01, defended the thesis titled "Natural convective flow of nanofluid in a square porous cavity" on 06, April 2022 under supervision of Dr. A. Vanav Kumar and co-supervision of Dr. S. Maity, Department of Basic and Applied Science, NIT, Arunachal Pradesh.

# **Training and Placement**

# Campus to Corporate:

The following students have been provisionally selected for the post of Probationary Engineer (E-II) at Bharat Electronics Limited (BEL):



Page | 16

# **Alumni Association**

# **Building Bridges Award:**

Our Alumni Anooshmita Das has received Building Bridges Award at LiveIntent, New

York, US.



Photo: Anooshmita Das

Our Alumni has joined as faculty positions in different institutions:

- 1. Dr. Sanjit Ningthoujam has received the appointment letter for faculty position as Assistant Professor Grade-II, School of Computing from IIIT UNA (HP).
- 2. Dr. Parashjyoti Borah has received the appointment letter for the faculty position as Assistant Professor Grade-II, School of Computing from IIIT UNA (HP).

Sr.	Name	Batch	Designation	Company
1	Kumod Kumar Yadav	B.Tech in Computer Science & Engieering(2015- 2019)	Senior System Engineer	Infosys
2	Nagesh Mishra	B.Tech in Civil Engineering (2017-2021)	Data Analyst	Tredence Inc.
3	Suraj das	B.Tech in Bio- Technology (2017-2021)	Backend Developer	Altradimension Technologies Private Limited
4	Angel Tage	B.Tech in Mechanical Engineering (2016-2020)	Summer Associate Internship	Bain & Company
5	Sreejesh S Nair	M.Tech in ATEP (2017-2019)	Program Manager	Microsoft For Startups
6	Suraj Kumar Saw	PHD in VLSI (2016-2019)	Senior Member Of Technical Staff	MEMSMART Pvt Ltd
7	Vishwajit Nandi	M.Tech in Electronic Design & Manufacturing(2014- 2016)	Gpu Simulation Engineer	Intel Corporation
8	KangkimangJamoh	B.Tech in Electronic & Communication Engineering ( 2017-2019)	Apprentice	Power Grid Corporation of India Limited
9	Nupoor Rai	B.Tech in Computer Science& Engineering (2014- 2018)	Technology Analyst	Infosys
10	Vikash Raj Bhaskar	B.Tech in Electronic & Communication Engineering (2017-2021)	Digital Specialist Engineer	Infosys
11	Gokul R	B.Tech in Electrical Engineering (2017-2021)	Engineering Leadership Trainee	KEC International Ltd

The following our alumni has joined the new position or organization in 2022:

# Alumni joined for Higher Studies:

- Our Alumni Mr Anshuman Yadav (BTech ME, 2015-19) has enrolled in Masters in Business Administration (MBA) from OHM Professional School / Technische Hochschule Nürnberg.
- Our Alumni Ms. Garima Singhal (MTech ECE, 2016-18) has joined the PhD program at IIT Roper in 2022.

# **Student's Voice**

I'm Pallabi Roy, a final year student from the department of ECE. I'm extremely delighted to share that I have joined Morgan Stanley as Spring Intern and as a welcome gesture they featured the 2022 Spring Intern class on the 1585 Broadway building signage in Times Square, New York.



Pallabi Roy, 8<sup>th</sup> semester, ECE.

#### Page | 19 TECHNODAYA, NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH- MARCH-APRIL 2022

Morgan Stanley is an American multinational investment bank and financial services company headquartered at 1585 Broadway in Midtown Manhattan, New York City founded on 5 September 1935. With offices in more than 42 countries and more than 60,000 employees, the firm's clients include corporations, governments, institutions, and individuals.

Last year when the firm featured its 2021 class of interns, I dreamt that for myself. This year it turned into reality. I'm extremely elated. It is indeed an honour to be selected as an intern into this prestigious firm as well as to be featured in the most coveted Times square.

This was an off campus opportunity. The opening for this role was floated around June-July and I applied via Morgan Stanley's career portal. The assessments consisted of 1 online test in which consisted of 3 sections namely Debugging section, Aptitude section and Coding sections. This was followed by 2 technical interview rounds. All the 3 assessment rounds were eliminatory. I could crack these rounds and made my way to my dream company.

Dear juniors, keep striving hard as if I can make it, you can do it too. Best Wishes.

# Bird's eye view of NITAP, Jote



*PC: Dr. Ram Prakash Sharma, Dept. of ME, NITAP* #Special Thanks to Ms. Anu Singh, M.Tech (VLSI), Dept. of ECE, NITAP for cover pictures

TECHNODAYA, NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH- MARCH-APRIL 2022

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



<u>Editor-in-Chief</u> Dr. K. Vijayakumar Assistant Professor Dept. of M&H



<u>Editor</u> Dr. Shubhajit Das Assistant Professor Dept. of ME



<u>Co-Editor</u> Mr. Ashok. R Research Scholar Dept. of ME



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NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH