

# TECHNODAYA

The bi-monthly newsletter of NIT Arunachal Pradesh

160<sup>th</sup> Rank in NIRF  
2021

160<sup>th</sup> Rank in NIRF  
2021

*National Institute of Technology*

*Arunachal Pradesh*

July – August 2021

## Director's Message



**Prof. Pinakeswar Mahanta**  
**Director**  
**NITAP**

Greetings!

It's an immense pleasure to share a good news with you that we secured 160<sup>th</sup> Rank in NIRF 2021 and I appreciate all the faculty members, staff, officers and students for their hard work and dedication.

Technodaya, Volume-IV, Issue- 4 is published and brought to your notice. During the last two months (July-August, 2021), 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 involved directly and indirectly in the achievements, some of which are MoU with Electronics Sector Skills Council of India (ESSCI), New Delhi, approval of QIP Centre, Popular Lecture Series on NEP, Discussion on designing Demand Driven Course, Workshops, 02 Patents, 31 research papers in International/National Journals/Conferences, and so on. As outreach activities, EBSB Interactive Session, Independence Day Celebration, Quiz Competition, and ATL Tinkerpreneur Summer Boot Camp, were organized.

I wish you all good health and stay safe. With Best Wishes.

## Editor-in-Chief's Message



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

I am very happy to compose this edition of TECHNODAYA. I thank my editor Dr. Shubhajit Das for his 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](mailto:technodaya@nitap.ac.in) or [newsletternitap@gmail.com](mailto:newsletternitap@gmail.com).

## Editorial Board

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Dr. K. Vijayakumar  
Dept. of M&H

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Dept. of ME

## Academic Activities

### Memorandum of Understanding (MoU):

National Institute of Technology, Arunachal Pradesh and Electronics Sector Skills Council of India (ESSCI), New Delhi signed Memorandum of Understanding. The purpose is to meet the requirement of NITAP, expansion for skill development of engineering students on various Electronics courses. During the event, Prof. Pinakeswar Mahanta, Director, Dr. Uday Kumar Khanikar, Registrar, NITAP, Mr. Piyush Chakraborty, Officiating Head and Mr. Saleem Ahmed, VP-BD, ESSCI were present.



*Photo: MoU between NITAP and ESSCI*

### Advisory Board Member of NPTI-NER, Guwahati:

Prof. Pinakeswar Mahanta, Director, NITAP was nominated as a member of Advisory Board, National Power Training Institute-NER, Guwahati under Ministry of Power, Govt. of India and attended 1<sup>st</sup> Advisory committee meeting NPTI, Guwahati, 27 July, 2021.

### Celebrating One Year Completion of National Education Policy 2020:

Prof. Pinakeswar Mahanta, Director, NITAP participated in an interaction session with The Prime Minister of India along with Directors of CFTI and VCs on Celebrating One Year Completion of

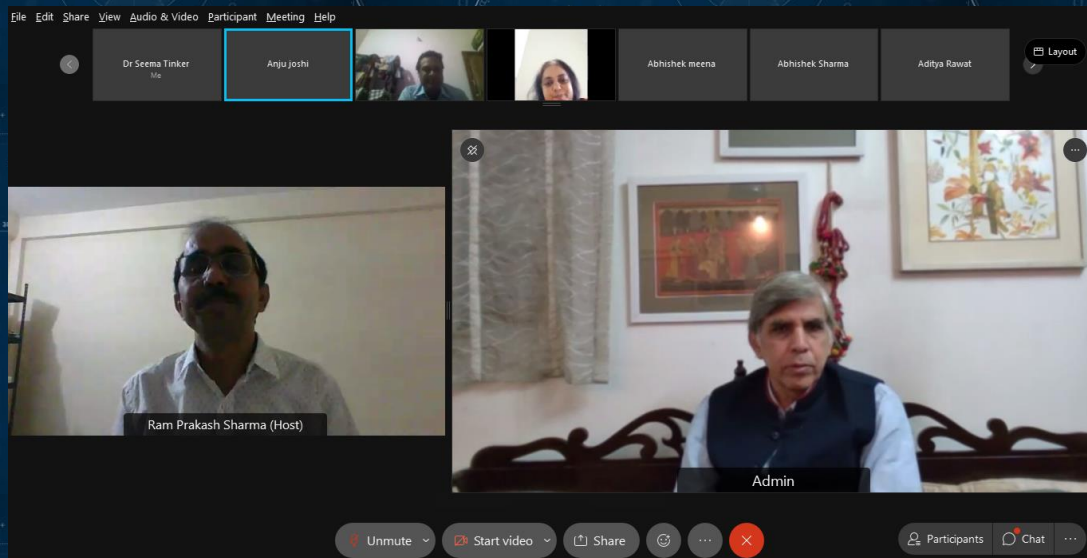
# National Education Policy 2020, 29 July 2021.



*Photo: Celebrating One Year Completion of National Education Policy 2020*

## 4<sup>th</sup> Popular Lecture Series:

One day international webinar on “National Education Policy 2020: Special Reference Academic Credit Bank System”, delivered by Padma Shri Prof. Dinesh Singh, Professor of Mathematics and Former Vice Chancellor, Delhi University, organized by Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, NITAP, 08 August, 2021.





*Photo: 4<sup>th</sup> Popular Lecture Series*

Discussion on designing Demand Driven Course (DDC):

Discussion on Designing Demand Driven Course (DDC) was held on 28 July 2021.



*Photo: Discussion on Designing Demand Driven Course*

Following statutory meetings were held during the period of July and August, 2021:

Meeting	Date
30 <sup>th</sup> FC meeting held at Jote, NITAP	18/08/2021
37 <sup>th</sup> BoG meeting held at Jote, NITAP	18/08/2021

Invited/ Expert Lectures:

1. Prof. Pinakeswar Mahanta, Director, NITAP delivered an inaugural address in “Recent Trend in Electric Vehicles” organized by Dept. of EE, NITAP, 05-09 July 2021.
2. Prof. Pinakeswar Mahanta, Director, NITAP delivered an inaugural speech in “AICTE ATAL online FDP on 'Design Thinking and Product Development” organized by Dept. of ME, NITAP, 23-27 August, 2021.
3. Prof. Pinakeswar Mahanta, Director, NITAP delivered a keynote address “Capacity Building Initiatives and Role of Entrepreneurs on Technology Intervention”, 31 July, 2021.
4. Prof. Pinakeswar Mahanta, Director, NITAP delivered a keynote address “Popular Lecture Series on National Education Policy 2020: Special Reference Academic Credit Bank System” organized by NITAP, 08 August, 2021.
5. Dr. Deepa. S. N. Associate Professor, Dept. of EE delivered an expert lecture on “Artificial Intelligence and Machine Learning in Autonomous Electric Vehicles” in an ATAL Faculty Development Programme on “Recent Trends in Electric Vehicles” organized by Dept. of EE, NITAP, 09 July 2021.
6. Prof. Mihir Kumar Shome, Professor, Dept. of M&H delivered an expert lecture on “Role of Women Entrepreneurs in Growth of Indian Economy” in Professional Development Programme on Entrepreneurship: The New-age Skills for Sustainable Future and Social Development organized by Amity University, Gurgaon Campus, 23 July, 2020.
7. Prof. Mihir Kumar Shome, Professor, Dept. of M&H delivered an expert lecture on “Sampling Techniques in High-Quality Research” in Faculty Development Program on "Approach towards High-Quality Research” organized by Amity Business School, Amity University, Kolkata, 03 August 2021.
8. Prof. Mihir Kumar Shome, Professor, Dept. of M&H delivered an expert lecture on “Research Hypothesis Testing” in Faculty Development Program on "Approach towards

High-Quality Research” organized by Amity Business School, Amity University, Kolkata, 02-06 August 2021.

9. Dr. Sahadev Roy, Assistant Professor, Dept. of ECE delivered a lecture on the Toycathon Workshop organized by the IIC of the Indian Institute of Engineering Science and Technology, Shibpur, 26 March 2021.
10. Dr. Achyuth Sarkar, Assistant Professor, Dept. of CSE delivered an expert lecture on “Emerging Trends in Multimedia Technologies and Network Securities”, at IQAC Cooch Bihar College, West Bengal, India, 10 July 2021.
11. Dr. Achyuth Sarkar, Assistant Professor, Dept. of CSE delivered an expert lecture on “Disaster Management/National Integration/EBSB/ Health & Hygiene”, 12 July, 07 August, 2021.
12. Dr. Pratap Kumar Swain, Assistant Professor, Dept. of BAS delivered an expert lecture “Gravitational Wave - A New Astronomical Tool”, organized by Department of Physics, GLA University, Mathura, UP, 27 August, 2021.
13. Dr. Pratap Kumar Swain, Assistant Professor, Dept. of BAS delivered an expert lecture “Semiclassical Strings in AdS/CFT”, organized by Department of Physics, GLA University, Mathura, UP, 28 August, 2021.

Workshop/FDP/Seminar/Conference/Webinar:

1. One week AICTE Training and Learning (ATAL) Academy sponsored online Faculty Development Program on ‘Design Thinking and Product Development’ was conducted by Dr. Shubhajit Das and Dr. Manjula Das Ghatak, Assistant Professor, Department of Mechanical Engineering, NIT Arunachal Pradesh, Jote, 23-27 August 2021. A total of 178 participants from all over India registered for the program.



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Speaking: chakravarthy

Participants (136)

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- Dr Shubhajt D... Cohost, me
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Introduction to the Design Innovation Center

Viewing Prof B.K.Chgakravart...

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Conventional Design Prototyping methods

Viewing Dr. Prasad S Onkar's...

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- Dr Shubhajt Das Cohost
- A SARAVANASELVAN
- A.V.LAKSHMI PRASUNA
- Aligina Anvitha Sudheshna
- B.S.CHARULATHA

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Photo: FDP on Design Thinking and Product Development

## Research and Development

### Patents:

Patent Number : 372058  
Date of Grant : 16.07.2021  
Title : A Process for Isolation of Flavonoid Compound / "Rutin" from Plant Spilanthes Paniculata.

Inventors : Hui Tag, Pallabi kalita Hui, Debjit Dutta, Gunashekharan Krishnaswamy

Patent Number : 2021105076  
Date of Grant : 08.08.2021  
Title : Machine Learning based Digital Twin Architecture Model and Communication Interface for Cloud Based Cyber Physical System for Industry 4.0.

Inventors : Achyuth Sarkar *et.al.*

### Projects Presentation:

1. Dr. Moirangthem Momocha Singh, Assistant Professor, Dept. of M&H, presented two projects on MSME project titled "Lotus Tea" and "NE Smart AgriYakai". They have been communicated on 31 July 2021 by MSME Govt. of India.
2. Dr. Moirangthem Momochā Singh, Assistant Professor, Dept. of M&H, submitted two MSME projects titled "3D EDU Printer" and "IoT Health Kiosk" during August 2021.

### Paper Publication/Presentation:

1. Jino Lawrence, Berlin Mohanadhas, Natarajan Narayanan, Vanav Kumar A, Vasudevan Mangottri, Suresh Kumar Govindarajan, "Numerical modelling of nitrate transport in fractured porous media under non-isothermal conditions", Environmental Science and Pollution Research. <https://doi.org/10.1007/s11356-021-15691-8>. [Impact factor: 4.223], (Scopus & SCI), 2021.
2. Abhijit Saha, Harish Garg and Debjit Dutta, "Probabilistic Linguistic q -rung orthopair fuzzy Generalized Dombi and Bonferroni mean operators for group decision-making with unknown weights of experts", International Journal of Intelligent Systems (SCI, IF: 8.709, Accepted on 29th July 2021).
3. Deepa,S.N., "Intelligent ubiquitous computing model for energy optimization of cloud IOTs in sensor networks", International Journal of Pervasive Computing and Communications, Scopus Indexed - Emerald Publishing Limited, <https://doi.org/10.1108/IJPCC-02-2021-0037>, 2021.

4. Rasi, D. and Deepa.S. N., "Energy optimization of internet of things in wireless sensor network models using type-2 fuzzy neural systems", *International Journal of Communication Systems IJCS - Wiley - SCIE Indexed - IF: 2.047*, <https://doi.org/10.1002/dac.4967>. (Article in Production), August 2021
5. Chukhu Chunka, Subhasish Banerjee, Rajat Subhra Goswami, "A Secure Key Agreement Protocol Defiant to Denial-of-Service Attack Based on Three Party Authentication", *Journal of the Institution of Engineers (India): Series B*, Accepted.
6. L. Jino, A. Vanav Kumar, "Cu-Water Nanofluid MHD Quadratic Natural Convection on Square Porous Cavity", *Int. J. Appl. Comput. Math*, Scopus, Springer, 7, 164.
7. J Lawrence, Alagarsamy Vanav Kumar, "Fluid Flow and Heat Transfer Analysis of Quadratic Free Convection in a Nanofluid Filled Porous Cavity", *Int. J. Heat Technology*, 39 (3), Scopus, 876-884.
8. D. S. Sankar, K. K. Viswanathan, A. K. Nagar, A. B. J. Nurul, A. Vanav Kumar, "Theoretical study on Poiseuille flow of Herschel-Bulkley fluid in porous media", *J. Appl. Comput. Mech.*, xx(x), ESCI 1-24, 2021.
9. Swapnali Doley, A. Vanav Kumar, K. R. Singh, "Numerical Study of the Spatial Fractional Advection-Diffusion Equation", *Turkish Journal of Computer and Mathematics, Education*, 12(11), Scopus, 6056- 6062, 2021.
10. L. Jino, A. Vanav Kumar, S. Maity, P. Mohanty, D. S. Sankar, "Mathematical modeling of a nanofluid in a porous cavity with side wall temperature in the presence of magnetic field", *AIP Conference Proceedings*, Scopus, 2336 (1), 020007.
11. L. Jino, A. Vanav Kumar, "MHD natural convection of hybrid nanofluid in a porous cavity heated with a sinusoidal temperature distribution", *Computational Thermal Sciences: An International Journal* 13 (5), ESCI, Begell House, 83-89, 2021.
12. Swapnali Doley, A. Vanav Kumar, L. Jino, "Numerical study of the space diffusion fractional Burger equation by using Lax-Friedrichs-implicit scheme", 4<sup>th</sup> International Conference on Mathematical Modelling, Applied Analysis and Computation-2021 (ICMMAAC-21), JECRC University, 05-07 August 2021.
13. A. Vanav Kumar, L. Jino, Swapnali Doley, M. Berlin, "Magnetic Field Effect on Lid-Driven Porous Cavity Heated to The Right Wall", 4<sup>th</sup> International Conference on Mathematical Modelling, Applied Analysis and Computation-2021 (ICMMAAC-21), JECRC University, 05-07 August 2021.

14. Swapnali Doley, A. Vanav Kumar, "Simulation of time fractional advection diffusion equation based on C-N finite difference method", 4<sup>th</sup> International Conference on Mathematical Modelling, Applied Analysis and Computation-2021 (ICMMAAC-21), JECRC University, 05-07 August 2021.
15. Puspendra Rajyota, A. Vanav Kumar, "Impact of the Working Environment on Employee's Productivity", 4<sup>th</sup> International Conference on Mathematical Modelling, Applied Analysis and Computation-2021 (ICMMAAC-21), JECRC University, 05-07 August 2021.
16. Swapnali Doley, A. Vanav Kumar, "Fractal-Fractional Time Derivative Modeling of Magnetohydrodynamic Fluid Moving Through A Channel With Porous Medium: A Study", 4<sup>th</sup> International Conference on Mathematical Modelling, Applied Analysis and Computation-2021 (ICMMAAC-21), JECRC University, 05-07 August 2021.
17. Dr. Moirangthem Momocha Singh, Assistant Professor, Dept. of M&H, submitted an abstract in 2<sup>nd</sup> Pan NIT Humanities and Social Sciences International Conference on Resilience and Transformation for Global Restructuring 2022 (ICRTGR 2022) 07-09 January, 2022. (Accepted).
18. I. Chitrasen, Dr. Rajen Pudur, "Optimization of Hybrid System for an Institute and a Hospital" Design Engineering, Scopus, ISSN:0011-9342, pg-871-883, 2021.
19. P. Changmai, S. Kumar, S. K. Nayak and S. K. Metya, "Maximum Power Estimation of Total Cross-Tied Connected PV Cells in Different Shading Conditions for High Current Application," in IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021.
20. Shashank Awasthi, Sanjeev Kumar Metya, and Alak Majumder, "Electro-optic 2:1 Reversible MUX Based on Ti diffused Lithium Niobate MZI," 35<sup>th</sup> Symposium on Microelectronics Technology and Devices, Compinas, Brazil, August 23-27, 2021.
21. Sudipta Chatterjee, Sahadev Roy "A low-cost assistive wheelchair for handicapped & elderly people", Ain Shams Engineering Journal, vol. 12, 2021. (<https://doi.org/10.1016/j.asej.2021.04.021>) (SCI/Scopus)
22. Md Faysal Kabir and Sahadev Roy "Development of an Accident Prediction Model for Freeways Systems", International Journal of Critical Infrastructures, vol. 17, 2021. (Scopus).

23. Kaushal Mukherjee, Subhadeep Mukhopadhyay, Sahadev Roy "Compact CPW-fed Multi-band Antenna for 5G Communication", Radio Electronics and Communications Systems, vol. 64, 2021. (Scopus).
24. Kaushal Mukherjee, Subhadeep Mukhopadhyay, Sahadev Roy, Arindam Biswas "Application of IoT Enable 5G Network in the Agricultural Sector", Smart Agriculture Automation using Advanced Technologies: Data Analytics & Machine Learning, Cloud Architecture, Automation & IoT., Springer Chapter 9. (Scopus).
25. Ram Prakash Sharma, Sachin Shaw, S. R. Mishra, Seema Tinker, "Exploration of radiative heat on magnetohydrodynamic rotating fluid flow through a vertical sheet", Heat Transfer, first published: 10 August 2021, DOI: <https://doi.org/10.1002/htj.22287>.
26. Ram Prakash Sharma, S. M. Ibrahim, S. R. Mishra, Seema Tinker, Impact of dissipative heat and radiative heat on MHD viscous flow through the slandering stretching sheet with temperature-dependent variable viscosity, Heat Transfer, First published: 08 July 2021, DOI: <https://doi.org/10.1002/htj.22243>.
27. Zack M. Mburu, Sabyasachi Mondal, Precious Sibanda, and Ram Prakash Sharma, The Overlapping Grid Spectral Collocation Method for Solving Entropy Generation in Casson Nanofluid Flow Past a Stretching Plate, J. Nanofluids 10, 45–57 (2021). American Scientific Publishers. DOI: <https://doi.org/10.1166/jon.2021.1766>.
28. Nepal ChandraRoy, Sadia Masud, Salaika Parvin, Sudha Ronjon Roy, Ram Prakash Sharma, Impact of variable thermo-physical properties on the combustion of a gas mixture past an axisymmetric body with thermal radiation, Cleaner Engineering and Technology, 4(2021)100229, Elsevier B.V. <https://doi.org/10.1016/j.clet.2021.100229>.
29. Ram Prakash Sharma and S. R. Mishra, A numerical simulation for the control of radiative heat energy and thermophoretic effects on MHD micropolar fluid, Journal of Ocean Engineering and Science, Available online 5 July 2021, <https://doi.org/10.1016/j.joes.2021.07.003>, Elsevier B.V.
30. P. K. Pattnaik, S.R. Mishra, Ram Prakash Sharma, Numerical simulation for flow through conducting metal and metallic oxide nanofluids, Journal of nanofluid, J. Nanofluids 9(4), 354–361 (2020). DOI: <https://doi.org/10.1166/jon.2020.1753>.
31. Saikat Samanta, Achyuth Sarkar, Parvinder Singh, Paramjeet Singh, "Blockchain and IOT Based Secure Future City Architecture". Journal of Information Assurance and Security, ESCI, Vol-16, PP.140-147, 2021.

### Book/Chapter Publication:

1. Dr. U. K. Saha, Assistant Professor, Dept. of BAS, published a book chapter ‘On the Generalized Fractional Calculus Operators Involving the H-Function of Several Variables’ in Lect. Notes in Networks, Syst., Vol. 214, (Scopus Indexed).
2. A. Vanav Kumar, L. Jino, “Simulation of nanofluid filled inside a porous square” in Advances in Science and Technology Volume-II Edited by Bharat Kakati Biswa, Ranjan Phukan, Tapan Rajbongshi, Dhiraj Bora, McGraw Hills Publications, 2, 2021, 35.

### Faculty Empowerment Programmes:

1. Prof. Pinakeswar Mahanta, Director, NITAP attended “National Webinar on Research, Innovation and Ranking” along with NITAP faculty members and staff organized by NIT Division, MUE New Delhi, 11 August, 2021.



Hon'ble Director Prof. Pinakeswar Mahanta and along with faculty and staffs of NIT Arunachal Pradesh participated National webinar on Research, Innovation and Ranking held on 11th August, 2021 at 10.30am

*Photo: National Webinar on Research, Innovation and Ranking*

2. Prof. Pinakeswar Mahanta, Director, NITAP attended “Promotion of Biogas Through Satat and Gobardhan: Aspiration and Roadmap for Northeast India” organized by as a Silver Jubilee Event of the Department of Energy, Tezpur University, Assam (India), 30-31 August, 2021.
3. Prof. Pinakeswar Mahanta, Director, NITAP attended “Webinar on Various Issues Pertaining to HEFA Funding”, organized by NIT Division, MoE, New Delhi, 19 August, 2021.
4. Dr. Shubhajit Das, Assistant Professor, Dept. of ME, NITAP attended “Innovative Ambassador Training (Foundation Level)” by Ministry of Education (MoE’s Innovation Cell & AICTE) 30 June - 30 July 2021.

5. Dr. Shubhajit Das, Assistant Professor, Dept. of ME, NITAP attended “NPIU TEQIP III online Faculty Development Program on Future-Skill Technologies in 3D Printing & Design” by IIT Hyderabad in June-July 2021.
6. Dr. Shubhajit Das, Assistant Professor, Dept. of ME, NITAP attended online workshop on “3D Printing Techniques and their Applications in Biomedical Devices” by North East Centre for Biological Sciences and Healthcare Engineering, IIT Guwahati, in association with Research Park, IIT Guwahati and Shree Rapid Technologies, 15 July 2021.
7. Dr. S. N. Deepa, Associate Professor, Dept. of EE attended “NPTEL LIVE Session – Effective communication” by Mr. Vishal Walivadekar, Director, Capgemini Technology Services India Pvt. Ltd on July 23, 2021.
8. Dr. S. N. Deepa, Associate Professor, Dept. of EE attended a Tech-talk on “Electric Vehicles and their market in India”, delivered by Mr. Naveen Munjal, Managing Director, Hero Electric Vehicles Pvt. Ltd, organized by IEEE India Council, 31 July 2021.
9. Dr. S. N. Deepa, Associate Professor, Dept. of EE attended NPTEL Live session organized by IIT Madras on “AI for AI” by Dr. Mani Madhukar, Program Manager, IBM, 05 August 2021.
10. Dr. U. K. Saha, Assistant Professor, Dept. of BAS attended a special session on "Design driven innovation for faculties of NIT Arunachal Pradesh", NITAP, Jote. 21 August, 2021.
11. Dr. A. Vanav Kumar, Assistant Professor, Dept. of BAS attended 4<sup>th</sup> International Conference on Mathematical Modelling, Applied Analysis and Computation (ICMMAAC-21), 05-07 August 2021.
12. Dr. Moirangthem Momocha Singh, Assistant Professor, Dept. of M&H, attended webinar on “Startup” organized by NIT Manipur, 08 July 2021.
13. Dr. Moirangthem Momocha Singh, Assistant Professor, Dept. of M&H, attended National Seminar on "Planning and Preparedness for Financial Inclusion" by RGU Arunachal Pradesh, 15 July 2021.
14. Dr. Moirangthem Momocha Singh, Assistant Professor, Dept. of M&H, attended the live webinars on “IPR strategy and cleantech innovation” conducted by Turnip Innovations, 16 July 2021.
15. Dr. Moirangthem Momocha Singh, Assistant Professor, Dept. of M&H, attended webinar on “Mindfulness: Key to happiness” organized by Amity Center of Positivism and Happiness, 23 July 2021.

16. Dr. Moirangthem Momocha Singh, Assistant Professor, Dept. of M&H, attended National webinar on “Research, Innovation and Ranking” organized by MoE, Govt. of India, MIC & AICTE, 11 August 2021.
17. Dr. Moirangthem Momocha Singh, Assistant Professor, Dept. of M&H, attended national seminar on “Adaptability in crisis: Psychology, education and society” organized by RGU Dept. of Psychology Doimukh Arunachal Pradesh, 17 August 2021.
18. Dr. Sanjeev Kumar Metya, Assistant Professor, Dept. of ECE attended webinar on “Biophotonics: Optical Nanoscopy and Quantitative Phase Microscopy”, IIT Delhi, 30 June, 2021 (IEEE).
19. Dr. Sanjeev Kumar Metya, Assistant Professor, Dept. of ECE attended webinar on “Campfire Session on Neuromorphic Photonics - Directions and Future Prospects”, 30 June, 2021 (OSA).
20. Dr. Sanjeev Kumar Metya, Assistant Professor, Dept. of ECE attended webinar on “PIC circuit optimization using compact models with physical parameters”, 08 July, 2021 (Optiwave).
21. Dr. Sanjeev Kumar Metya, Assistant Professor, Dept. of ECE attended webinar on “Modeling Photodetectors Using the Drift-Diffusion Equations for RF-Photonics Applications”, 15 July, 2021 (OSA).
22. Dr. Sanjeev Kumar Metya, Assistant Professor, Dept. of ECE attended webinar on “Multicore SM and MM Fibers with Trenches and Air-Hole Assisted”, 28 July, 2021 (OSA).
23. Dr. Sanjeev Kumar Metya, Assistant Professor, Dept. of ECE attended webinar on “Modeling Optic and Photonic Devices Using COMSOL Multiphysics®”, 04 August, 2021 (COMSOL).
24. Dr. Sanjeev Kumar Metya, Assistant Professor, Dept. of ECE attended webinar on “Hot Nanophotonics: Light with a Phase Transition”, 05 August, 2021 (OSA).
25. Dr. Sanjeev Kumar Metya, Assistant Professor, Dept. of ECE attended webinar on “Photonic Crystal Design Within the OptiFDTD Environment”, 18, August, 2021 (Optiwave).
26. Prof. Mihir Kumar Shome, Professor, Dept. of M&H attended webinar on “Celebrating one year of National Education Policy 2020” organized by AICTE, Govt. of India, July-August, 2021.
27. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME attended University Distinguished Lecture titled “Creating a Vibrant Knowledge Society - An Indian Strategy for 21<sup>st</sup>”



Century” delivered by Dr K Kasturirangan, Chairman, National Education Policy (NEP)-2020 and special address by Dr Audimulapu Suresh, Hon’ble Minister of Education, Andhra Pradesh organized by SRM University-AP, association with India's national newspaper, "The Hindu", 24 July, 2021.

28. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME attended “Launching Event: Celebrating One Year of National Education Policy 2020”, 29 July, 2021.
29. Dr. Achyuth Sarkar, Assistant Professor, Dept. of CSE attended “Online lecture series the Sanskritosava 2021”, organized by Center of Excellence for Indian Knowledge System, Sanskriti Club Indian Institute of Technology, Kharagpur, 22-29 August, 2021.

### **Faculty Awards and Achievements**

1. Dr. Shubhajit Das, Assistant Professor, Dept. of ME, NITAP was *Reviewer* of “Industrial Lubrication and Tribology” Emerald publishing for the month of August 2021.
2. Dr. Shubhajit Das, Dept. of ME, NITAP was *Reviewer* of “8<sup>th</sup> International & 29<sup>th</sup> All India Manufacturing Technology, Design and Research (AIMTDR 2021) Conference” scheduled to be held from 9<sup>th</sup> to 11<sup>th</sup> December 2021 at Department of Mechanical Engineering, PSG College of Technology & PSG Institute of Technology and Applied Research, Coimbatore, Tamilnadu.
3. Dr. Abir Jyoti Mondal, Assistant Professor, Dept. of ECE was a *Reviewer* of “International Journal of Electronics”, Taylor & Francis.
4. Dr. Abir Jyoti Mondal, Assistant Professor, Dept. of ECE was a *Reviewer* of “Integration, the VLSI Journal”, Elsevier.
5. Dr. Abir Jyoti Mondal, Assistant Professor, Dept. of ECE was a *Reviewer* of “Journal of Circuits Systems & Computers”, World Scientific.
6. Dr. Abir Jyoti Mondal, Assistant Professor, Dept. of ECE was a *Reviewer* of “Silicon”, Springer.
7. Dr. Anup Paul, Assistant Professor, Dept. of ME, NITAP was a *Reviewer* of “International Journal of Fluids”.
8. Dr. S. N. Deepa, Associate Professor, Dept. of EE was a *Reviewer* of “Expert Systems with Applications, Elsevier Publications, 08 August 2021.
9. Dr. S. N. Deepa, Associate Professor, Dept. of EE was a *Reviewer* of “Expert Systems with Applications, Elsevier Publications, 09 August 2021.

10. Dr. S. N. Deepa, Associate Professor, Dept. of EE was a *Reviewer* of “Computer Methods and Programs in Biomedicine, Elsevier Publications, 22 August 2021.
11. Dr. Moirangthem Momocha Singh, Assistant Professor, Dept. of M&H, renominated as NISP coordinator for MoE’s Innovation Cell for activities/communications related to NISP implementation at NIT Arunachal Pradesh.
12. Dr. Nabakumar Pramanik, Assistant Professor, Dept. of CHE was a *Reviewer* of the Journal named "Bulletin of Materials Science," Springer Nature publications.
13. Dr. Ananta Kumar Atta, Assistant Professor, Dept. of CHE was a *Reviewer* of the Journal of Photochemistry & Photobiology, A: Chemistry Publisher: Elsevier.
14. Dr. Ananta Kumar Atta, Assistant Professor, Dept. of CHE was a *Reviewer* of the Frontiers in Sensors Publisher: Frontiers.
15. Dr. Sahadev Roy, Assistant Professor, Dept. of ECE was an external expert for the evolution of Toys in the Toy Design competition organized by the IIC of Indian Institute of Engineering Science and Technology, Shibpur, 12-14, August 2021.
16. Dr. Sahadev Roy, Assistant Professor, Dept. of ECE was an external expert of IIC, Model Mahila College, Kharsawan for 2021- 2023.
17. Dr. Sahadev Roy, Assistant Professor, Dept. of ECE was invited as Session Chair for Track 5, Topic – Robotics in International Conference on Industrial Instrumentation & Control (ici2c-2021) organized by the Department of Applied Electronics & Instrumentation Engineering, RCC Institute of Information Technology (RCCIIT). The conference knowledge partners were Institution of Engineers (India) and Technical Co-Sponsors - IEEE Industry Applications Society (IAS) - Kolkata Chapter, The Robotics Society India (TRS) and Indian Ceramic Society - Karnataka Chapter), 20 - 22 August, 2021.
18. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME was a *Reviewer* of “Journal of Ocean Engineering and Science”, Elsevier Publications, July 2021.
19. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME was a *Reviewer* of “Special Topics & Reviews in Porous Media - An International Journal”, Begell House, North America, 50 North Street, Danbury, CT 06810 Publications, July 2021.
20. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME was a *Reviewer* of Karbala International Journal of Modern Science, University of Kerbala. Production and hosting by Elsevier B.V., July 2021.

21. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME was a *Reviewer* of Scientific Reports, Nature Research, Heidelberger Platz 3, Berlin, Germany, 14197 Publications, August 2021.

22. Dr. Achyuth Sarkar, Assistant Professor, Dept. of CSE was a *Reviewer* of REBT Therapy A New Horizon in Mental Health Care: Metal Health Care.

23. Dr. Achyuth Sarkar, Assistant Professor, Dept. of CSE was a *Reviewer* of A Virtual Reality Framework Insights for Disaster Preparedness.

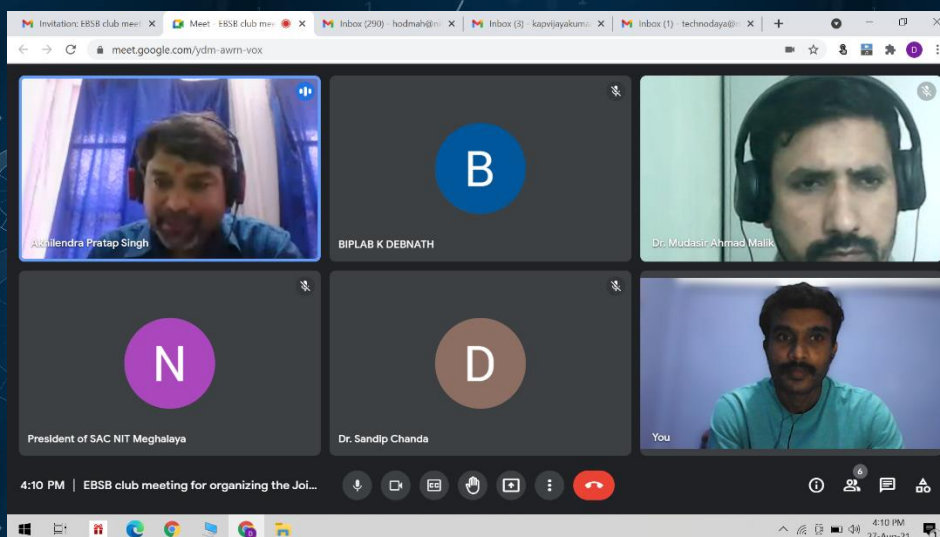
### Student Activities

1. Samiul Islam Hazarika has successfully defended his thesis titled “Carbohydrate-modified fluorescent sensors for Cu (II) and Au (III) ions: Synthesis, solvents and cell imaging studies” under the guidance of Dr. Dr. Ananta Kumar Atta and Dr. Nabakumar Pramanik, Assistant Professor, Dept. of CHE, NITAP. Defense date: 05.08.2021.

### Outreach Activities

#### Ek Bharat Shreshtha Bharat (EBSB) Club:

An interactive session cum meeting was organized with NIT, Meghalaya, GKCIET Malda, and MNNIT Allahabad to discuss about the Calendar Activities of 2021-2022, 27 August, 2021.



*Photo: An interactive session cum meeting*

## Poster Making Competition:

Ek Bharat Shreshtha Bharat (EBSB) Club, NIT Arunachal Pradesh will conduct Online Poster Making Competition on the theme of Water Conservation on 10<sup>th</sup> September 2021 on the occasion of Swachhta Pakhwada, 2021.



## 75<sup>th</sup> Independence Day Celebration:

75<sup>th</sup> Independence Day was celebrated at Permanent Campus Jote, NITAP. Prof. Pinakeswar Mahanta, Director, NITAP hoisted flag and delivered a special talk on 75<sup>th</sup> Independence Day.



*Photo: 75<sup>th</sup> Independence Day Celebration*

### ATL Tinkerpreneur Summer Boot Camp:




1. Under mentorship of Dr. Moirangthem Momocha Singh, Assistant Professor, Dept. of M&H, NITAP, a team from Advance Public School Moirang Manipur State on the project titled Ultrasonic security system (<https://youtu.be/7SXYiIF9yKQ>) lead by Hemam Deevoraj, Priyanshu Oinam, Birojeet Salam got selected at top 300 ATL Marathon 2020 by AIM-NITI Aayong New Delhi during ATL Tinkerpreneur Summer Boot Camp 2021/9 week from 31<sup>st</sup> May to 1<sup>st</sup> August 2021.
2. Under mentorship of Dr. Moirangthem Momocha Singh, Assistant Professor NIT Arunachal Pradesh, Mr. Udbhas Pal from Ramakrishna Mission Vidyalaya Tripura's project on Innovate to develop an effective and integrated healthcare systems got selected ATL Marathon 2020- Top 10 teams per state by AIM-NITI Aayong New Delhi during ATL Tinkerpreneur Summer Boot Camp 2021/9 week from 31<sup>st</sup> May to 1<sup>st</sup> August 2021.

### IIC/Startup Cell NIT Arunachal Pradesh:

1. Dr. Moirangthem Momocha Singh, Assistant Professor, Dept. of M&H, along with IIC/startup cell NIT Arunachal Pradesh organized "World Entrepreneurs Day with the presence of Dr. Rohit Swarup recipients of National award Shiksha Bharti Puruskar & Indian leadership award for educational excellence on his topic Design driven innovation for faculties of NIT Arunachal Pradesh, 21 August 2021.
2. A special session on "An Idea to Creating a Product" by Mr. Amiya Kumar Samantaray, Founder & CEO of Diatoms was organized by Dr. Sahadev Roy, Coordinator, IIC/startup cell NITAP, 23 August, 2021.
3. Dr. Moirangthem Momocha Singh, Assistant Professor, Dept. of M&H, Dr. Shubhajit Das, Assistant Professor, Dept. of ME, and Dr. Brajagopal Datta, Assistant Professor, Dept. of EE completed Innovation Ambassador Training 2021 (Foundation Level) organized by MIC, MoE, Govt. of India.
4. Dr. S. K. Jana, Assistant Professor, Dept. of BT, Dr. Sahadev Roy, Assistant Professor, Dept. of ECE, and Dr. T. D. Das, Assistant Professor, Dept. of BAS, completed Innovation Ambassador Training 2021 (Advanced Level) organized by MIC, MoE, Govt. of India.

## NCC Cell:

1. Quiz Competition was organized by Dr. Achyuth Sarkar, NCC Coordinator, NITAP on the theme 'New India@75', in collaboration with AIDS Control Society (APSACS) Under Govt. of Arunachal Pradesh, 15 Aug 2021. 51 students participated in the competition. The winners are:

Name	Roll.No	Department	Photo	position
Priya Sinha	CSE/20/35	CSE		1st
Ayush Raj	CE/20/16	CE		2 <sup>nd</sup> Runner up
Harsh Pathak	CSE/20/28	CSE		3 <sup>rd</sup> Runner up

*Photo: Winners of Quiz Competition*

## Our Alumni

### Alumni Details about higher studies:

1. Simhambhatla Susmitha Priyanka got selected in both TU Ilmenau in Micro and Nanotechnology and Saarland University in Embedded systems, Germany.

2. Hello all, myself Henakshi Das, currently working as Junior research fellow in the School of Electrical Science, IIT Bhubaneswar. At the very outset I would like to express my heartiest thanks to NIT, AP family for helping me successfully complete Master of Technology (M.Tech) in VLSI and Embedded system (2019-2021). To be a part of NIT Arunachal Pradesh was a great time for me. Living in Arunachal Pradesh for two years gave me some very good experiences. All the faculty members are very much supportive and encourage students in their research. As the college shifted to permanent campus, I believe the campus will be more enjoyable. I am overwhelmed by being an Alumni of NIT, AP for whatever & wherever I am today. Lastly I thank faculty members for making us what we are today.



Henakshi Das  
M.tech batch: 2019-2021  
Department: VLSI & Embedded system

### **Announcements**

1. AICTE QIP sponsored Short Term Course (STC) on '**Mechatronics and Manufacturing Automation**' is scheduled to be held online between 4<sup>th</sup> to 8<sup>th</sup> October 2021 by the Department of Mechanical Engineering, NIT Arunachal Pradesh. Program Coordinator: Dr. Shubhajit Das, Assistant Professor and Dr. Prases K. Mohanty, Assistant Professor Dept. of ME, NITAP. Total number of seats: 30. Kindly check institute website for updates:

<https://www.nitap.ac.in/>

## 2. One Week Faculty Development Programme (FDP) on Development and Applications of Sensors in Modern life, organized by Dept. of BAS, NITAP, 25-29 October, 2021.

<p><b>One Week Faculty Development Programme (FDP)</b> <b>On</b> <b>DEVELOPMENT AND APPLICATIONS OF SENSORS IN MODERN LIFE</b> <b>25<sup>th</sup> - 29<sup>th</sup> October 2021</b> <b>SPONSORED</b></p>  <p><b>Announcement Brochure</b></p> <p><b>Program Coordinator</b> <b>Dr. Ananta Kumar Atta</b> Organized by</p>  <p><b>Basic &amp; Applied Science Department</b> <b>National Institute of Technology</b> <b>Arunachal Pradesh</b> <b>Yupia, Papum Pare, A.P -791112</b></p>	<p><b>Patron:</b> Prof. Pinakeswar Mahanta Director, NIT Arunachal Pradesh</p> <p><b>Chairman:</b> Prof. Mihir Kumar Shome Institute Coordinator of ATAL FDP</p> <p><b>Coordinator:</b> Dr. Ananta Kumar Atta Email: <a href="mailto:akatta.chem@nitap.ac.in">akatta.chem@nitap.ac.in</a> <a href="mailto:attaananta@gmail.com">attaananta@gmail.com</a> Mobile: 9436288612</p> <p><b>Convener:</b> Dr. Kartick Mondal Email: <a href="mailto:kartick@nitap.ac.in">kartick@nitap.ac.in</a></p> <p><b>Organizing Committee:</b> Dr. Nabakumar Pramanik Dr. Utpal Kumar Saha Dr. Karam Ratam Singh Dr. Susanta Maity Dr. A. V. Kumar Dr. Shakti Prasad Dr. Debjit Dutta</p> <p><b>Important Dates</b></p> <table><tr><td>Last date for online Registration</td><td>20<sup>th</sup> October, 2021</td></tr><tr><td>Date of intimation to the selected candidates (by Email or phone)</td><td>21<sup>th</sup> October, 2021</td></tr></table>	Last date for online Registration	20 <sup>th</sup> October, 2021	Date of intimation to the selected candidates (by Email or phone)	21 <sup>th</sup> October, 2021	<p><b>Target participants:</b> Faculty members of the AICTE approved institutions, Research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/ Technicians Participants from Industry etc.) and staff of host institutions are eligible to apply for the FDP.</p> <p><b>Registration Fee:</b> Nil</p> <p><b>Steps to join FDP</b></p> <ol style="list-style-type: none"><li>1. Visit <a href="https://atalacademy.aicte-india.org/signup">https://atalacademy.aicte-india.org/signup</a></li><li>2. Sign up as a participant and complete the process of registration.</li><li>3. List of all FDPs will be visible under the workshop tab in your login</li><li>4. Using the keys Ctrl F and search keyword <b>Development and applications of Sensors in Modern life</b> to get the course details.</li><li>5. The FDP can also be searched by filtering the State option as Arunachal Pradesh and the month option as August.</li><li>6. Click on "+" icon to join the course.</li></ol> <p><b>Number of seats:</b> Limited to maximum 200. Participants are selected by organizers on first come first serve basis. All the participants should have Gmail account.</p> <p><b>Event Details:</b> All the sessions will be conducted through online platform (Cisco Webex or Google Meets). The meeting links will be sent to the selected participants through WhatsApp/email. There will be an Inaugural Ceremony, 14 Technical sessions and one Fitness session, online test/quiz and a valedictory.</p> <p>An online test will be conducted by the coordinator at the end of the program.</p>
Last date for online Registration	20 <sup>th</sup> October, 2021					
Date of intimation to the selected candidates (by Email or phone)	21 <sup>th</sup> October, 2021					

For feedback and suggestion

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