

Volume  
**FOUR**

Issue  
**ONE**



**National Institute of Technology  
Arunachal Pradesh**

**TECHNODAYA**

A Bi-monthly Newsletter of NIT Arunachal Pradesh

**February, 2021**

## Director's Message



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

Greetings!

It's an honor to share with you the current edition of Technodaya, Newsletter of NIT Arunachal Pradesh. This is our first newsletter of 2021. During the last two months (Jan-Feb, 2021), our faculty members and officers had 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, involved directly and indirectly in the achievements, some of which are MoU with Foundation for Integrated Support and Solution (FISS), Guwahati for the collaboration and partnership for promotion and development of innovation and start-up ecosystem in the state and region and Entrepreneurship Development Programmes (EDP) on Training on Vermicomposting, Bamboo Shoot & other Non-Timber based Forest Products, Basic Training on Layer Poultry Farming and Training on Herbal Tablets, Capsules and Syrup Making. All participants are from nearby areas. This shows that people are ready and want to become entrepreneurs. Our faculty members and students published research papers and brought consultancy projects too. Along with, they conducted FDPs, Workshops, Seminars etc. As outreach activities, Mother Language Day Celebration by EBSB Cell and Logo Competition by IPR Cell, were organized.

With Best Wishes.

## Editor-in-Chief's Message



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

I am happy to bring TECHNODAYA to your hand and invite all students, alumni, faculty members, officers, supporting staff and various stakeholders associated with NITAP to support us and send news to [technodaya@nitap.ac.in](mailto:technodaya@nitap.ac.in).

I thank my team members Dr. Shubhajit Das and Dr. Millo Yasung for their supports and suggestions. Special thanks to my colleagues for their valuable comments to make this edition more perfect.

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## Editorial Board

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# Academic Activities

## Memorandum of Understanding (MoU):

1. MoU was signed between NITAP and Foundation for Integrated Support and Solution (FISS), Guwahati to enhance the collaboration and partnership for promotion and development of innovation and start-up ecosystem in the state and region, 16 Feb, 2021.



*Photo: MoU signing with FISS at NITAP*

## Entrepreneurship Development Programmes under NECTAR, DST:

Prof. Pinakeswar Mahanta, Director, NITAP inaugurated various Entrepreneurship Development Programmes: 1. Training on Vermicomposting by Dr. Manjula Das Ghatak, Assistant Professor, Dept. of ME, (03-07 Feb, 2021) 2. Bamboo Shoot & other Non-Timber based Forest Products by Dr. Atta, Assistant Professor, Dept. of BAS, (08-12 Feb, 2021), 3. Basic Training on Layer Poultry Farming by Dr. Rajan Pudur, Assistant Professor, Dept. of EE, (15-19 Feb, 2021) and 4. Training on Herbal Tablets, Capsules and Syrup Making by Dr. Pallabi Kalita Hui, Dept. of BT, (21-27 Feb, 2021) in the TELC auditorium, NITAP.

## Meeting with GIFU University, Japan:

Prof. Pinakeswar Mahanta, Director, NITAP had a meeting with GIFU University Japan for reviewing the collaborative works between NITAP and GIFU University, Japan, 05 Jan, 2021.

## 31<sup>st</sup> Senate Meeting:

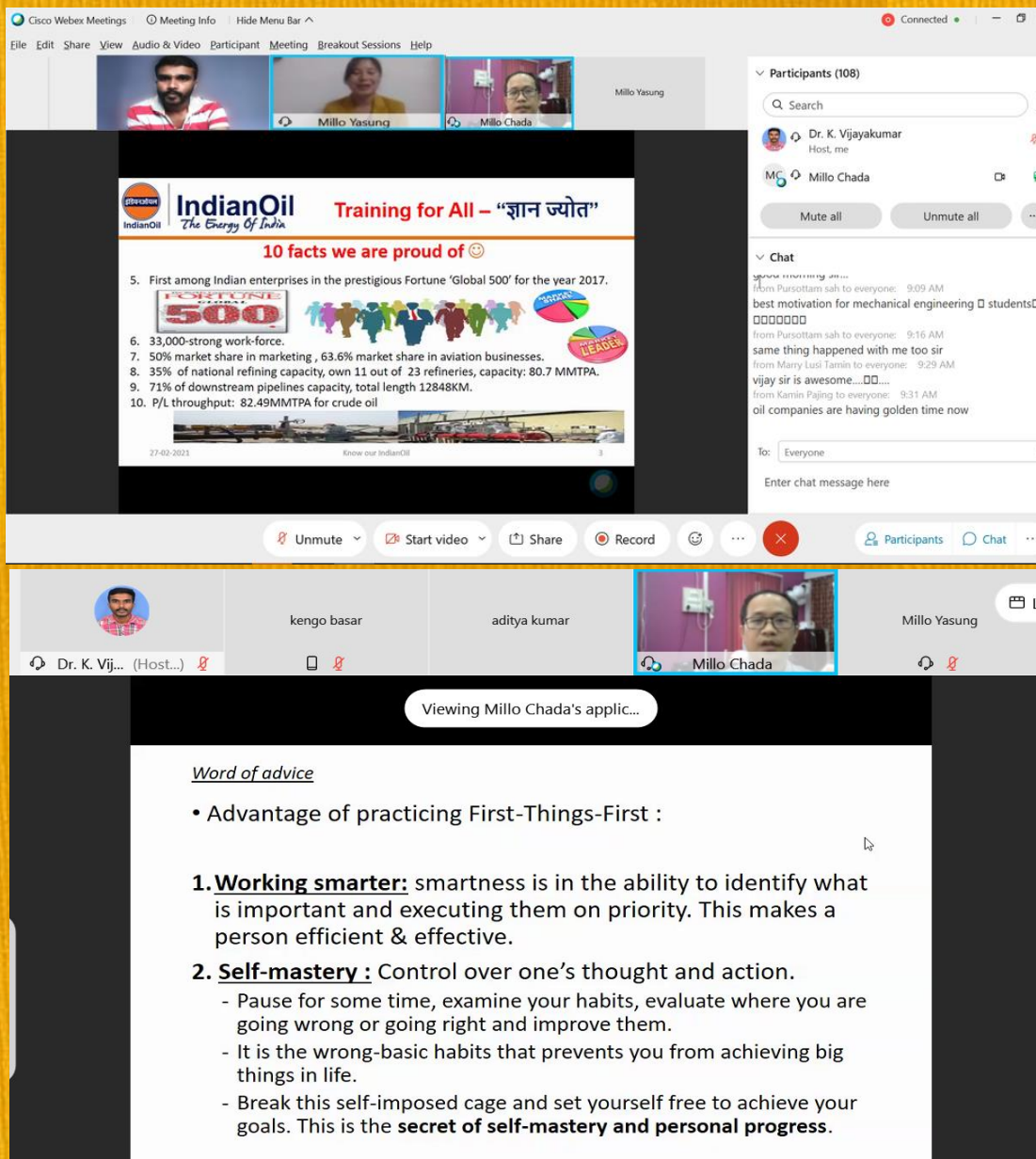
The 31<sup>st</sup> Senate Meeting was held on 06.02.2021 (Saturday) at 02.00 PM in Director's Conference Hall, NITAP through offline/online mode.

## 25<sup>th</sup> BWC Meeting of NITAP:

The 25<sup>th</sup> meeting of the Building and Works Committee (BWC) of NITAP was held on 11.02.2021(Thursday) at 2.00 PM in Director's Conference Hall, NITAP through offline/online mode.

## Lecture Series at DoMH:

Department of Management & Humanities (DoMH) organized second episode of lecture series on "First Thing First" – Sharing of Experience for College Going Students delivered by Mr. Millo Chada, Manager, Indian Oil Cooperation Ltd, Digboi, 09.00 am, 27 Feb, 2021 (online).



The screenshot shows a Cisco Webex meeting interface. The main content area displays a presentation slide from Indian Oil titled "Training for All – 'ज्ञान ज्योत'" (Jnan Jyot). The slide lists "10 facts we are proud of" and includes a "FORTUNE 500" logo. The chat window on the right shows messages from participants like Pursottam Sah, Marry Lusi Tamin, and Kamin Pajing. The bottom of the screen shows a video player displaying a slide titled "Word of advice" with the following content:

Word of advice

- Advantage of practicing First-Things-First :

- 1. Working smarter:** smartness is in the ability to identify what is important and executing them on priority. This makes a person efficient & effective.
- 2. Self-mastery :** Control over one's thought and action.
  - Pause for some time, examine your habits, evaluate where you are going wrong or going right and improve them.
  - It is the wrong-basic habits that prevents you from achieving big things in life.
  - Break this self-imposed cage and set yourself free to achieve your goals. This is the **secret of self-mastery and personal progress.**

Photo: Lecture Series at DoMH-2

### **New Appointments:**

1. Sri Bishnu Chakraborty, has joined as Consultant (Finance & Accounts), NITAP. He retired from the post of Finance Officer of Krishna Kanta Handique State Open University, Guwahati. He was also the treasurer of Guwahati University for a period of 10 years.



Sri Bishnu Chakraborty  
Consultant (Finance & Accounts), NITAP

2. Dr. S. N. Deepa, has joined as Associate Professor, Dept. of EE, NITAP. Earlier she worked as Associate Professor in Anna University, Regional Campus, Coimbatore.

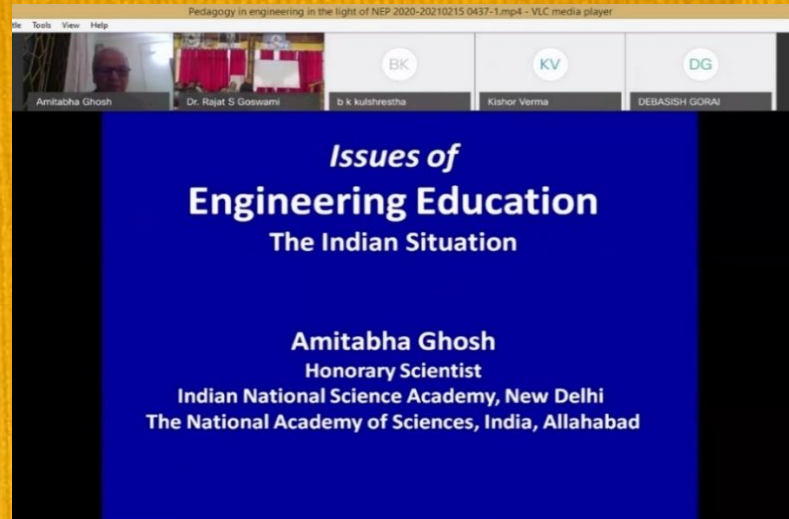


Dr. S. N. Deepa,  
Associate Professor, Dept. of EE, NITAP

### **Invited/ Expert Lectures:**

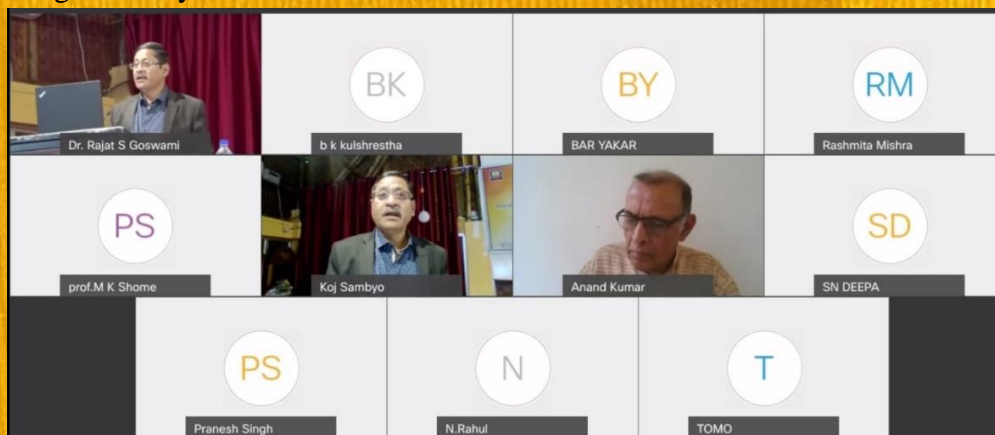
1. Prof. Pinakeswar Mahanta, Director, NITAP delivered a short note on the inaugural session of 5 day workshop on Entrepreneurship and Innovation as a Career Opportunity organized by organised by IIC-Institute Innovation Cell in collaboration with Startup Cell, NITAP sponsored by TEQIP-III, 18-22 Jan 2021.

- Prof. Pinakeswar Mahanta, Director, NITAP participated and presided over the webinar on Issues of Engineering Education: The Indian Situation, the key note speaker was Prof. Amitabha Ghosh, Honorary Scientist, Indian National Science Academy, New Delhi organized by Dr. R. P. Sharma, Dean Students Affairs, NITAP, 15 Feb, 2021.



*Photo: Prof. Ghosh presenting the topic on “Issues of Engineering Education: The Indian Situation”*

- Prof. Pinakeswar Mahanta, Director, NITAP participated and presided one-day webinar/seminar on Role of Teacher’s in National Education Policy (NEP): Awareness, Orientation, Challenges, and Responses, by Prof. Vasudha Kamat, NEP Draft Committee Member as Keynote Speaker, Prof. Anand Kumar, Retired Professor, JNU, New Delhi as Chief Guest, Dr. Sunil Mohanty, Social worker & Eminent Educationist as Guest of Honor, organized by Dr. R. P Sharma, Dean Students Affairs, NITAP, 12 Feb, 2021.



*Photo: Role of Teacher’s in National Education Policy (NEP)*

- Prof. Pinakeswar Mahanta, Director, NITAP delivered a speech in Director’s Dialogue during the International Webinar on NEP 2020: Implications, Challenges and Paradigm Shift in Humanities and Social Sciences Education organized by Department of Humanities and Social Sciences, NIT, Warangal in collaboration with 14 other NITs, 08-10 Jan, 2021.

5. Prof. Pinakeswar Mahanta, Director, NITAP participated 3<sup>rd</sup> Conference of Academic Leadership on Role of Teachers in NEP: Awareness, Orientation, Challenges & Responses organized by NITI Aayog, Govt. of India and Bharatiya Shikshan Mandal, 18 Jan, 2021.
6. Prof. Pinakeswar Mahanta, Director, NITAP participated in Road Safety Awareness Programme and delivered a short talk on the theme Road Safety organized by ITI, Yupia, 27 Jan, 2021.
7. Prof. Pinakeswar Mahanta, Director, NITAP chaired a meeting and shared his thoughts on the Implementation of NISP and IPR at NITAP conducted by IIC, NISP and Start-up Cell, NITAP, 30 Jan, 2021.
8. Prof. Pinakeswar Mahanta, Director, NITAP participated the inaugural function of the Matribhasha Diwas organized by Ministry of Education, Department of Higher Education, Govt. of India, in which Shri Venkaiah Naidu, Hon'ble Vice President of India was the Chief Guest of the occasion and Hon'ble Education Minister and Hon'ble Minister of State Culture and Tourism (I/C) and Minister of State for Education shall be Guest Honor, 21 Jan, 2021.
9. Dr. Ananta Kumar Atta, Assistant Professor, Dept. of CHE, delivered an expert talk on “A triazole-linked pyrene-appended N-glycosyl derivatives for detection of heavy metal ions in water and cell imaging studies” at FDP-STTP on Science and Technology of Advanced Materials (STAM-2021), NITAP, 22-26 Feb, 2021.
10. Dr. Ananta Kumar Atta, Assistant Professor, Dept. of CHE, delivered an expert talk on “Design, synthesis and use of fluorescent xylofuranose derivatives for recognition of Cu<sup>2+</sup> ions” at FDP-STTP on Science and Technology of Advanced Materials (STAM-2021), NITAP, 22-26 Feb, 2021.
11. Dr. Nabakumar Pramanik, Assistant Professor, Dept. of CHE, delivered an online training seminar in the refresher / training of guest faculties and scholars at NITAP, 11 Jan, 2021.
12. Dr. Nabakumar Pramanik, Assistant Professor, Dept. of CHE, delivered an expert talk on “Hydroxyapatite nanoparticle: An excellent material for biomedical applications” at Science and Technology for Advanced Materials organized by Dept. of BAS, NITAP, 22 Feb, 2021.
13. Dr. Nabakumar Pramanik, Assistant Professor, Dept. of CHE, delivered an expert talk on “Doxorubicin encapsulated hydroxyapatite nanoparticle and its nanocomposite with polymer for bioengineering applications” at Science and Technology for Advanced Materials organized by Dept. of BAS, NITAP, 24 Feb, 2021.



**Workshop/FDP/Seminar/Conference/Webinar:**

1. Entrepreneurship Development Program (EDP) on “Bamboo Shoot & Other Non-Timber Based Forest Product” was conducted by Dr. Ananta Kumar Atta, Assistant Professor, Dept. of CHE, NITAP, as a coordinator, under NECTAR, DST Project, 08-12 Feb, 2021.



*Photo: EDP on Bamboo Shoot & Other Non-Timber Based Forest Product*

2. Entrepreneurship Development Program (EDP) on “Training on Vermicomposting” was conducted by Dr. Manjula Das Ghatak, Assistant Professor, Dept. of ME, NITAP, as a coordinator, under NECTAR, DST Project. 03-07 Feb, 2021.



*Photo: EDP on Training on Vermicomposting*

3. Entrepreneurship Development Program (EDP) on “Basic Training on Layer Poultry Farming” was conducted by Dr. Rajan Pudur, Assistant Professor, Dept. of EE, NITAP, as a coordinator, under NECTAR, DST Project. 15-19 Feb, 2021.



*Photo: EDP on Basic Training on Layer Poultry Farming*

4. Entrepreneurship Development Program (EDP) on “Training on Herbal Tablets, Capsules and Syrup Making” was conducted by Dr. Pallabi Kalita Hui, Dept. of BT, NITAP, as a coordinator, under NECTAR, DST Project. 21-27 Feb, 2021.



*Photo: EDP on “Training on Herbal Tablets, Capsules and Syrup Making*

5. Five Days Online Workshop on “Entrepreneurship & Regional Development” was conducted by Prof. M. K. Shome, Professor, Dept. of M&H, under IIC – Institute Innovation Council & Startup Cell, NITAP Sponsored by TEQIP III, 22-26 Feb, 2021.
6. One week FDP-STTP on "Science and Technology of Advanced Materials" was conducted by Dr. Pratap Kumar Swain, Assistant Professor, Dept. of BAS, sponsored by AICTE, 22-26 Feb, 2021.
7. 5 days online AICTE FDP-STTP workshop on “Innovation Management” was conducted by Dr. M. M. Singh, Assistant Professor, Dept. of M&H as Program Coordinator, sponsored by AICTE, 15-19 Feb, 2021.
8. One week online FDP-STTP on “Mathematics for Machine Learning” was conducted by Dr. U. K. Saha, Assistant Professor, Dept. of BAS as a Co-Coordinator, sponsored by AICTE, 25 – 30 Jan, 2021.
9. One-day webinar for second popular lecture series on “Teachers role in NEP-2020: implementation Awareness, orientation, challenges and responses” was conducted by Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, 12 Feb, 2021.



*Photo: Webinar on Teachers role in NEP-2020*

10. One day webinar for third popular lecture series on “Issues of Engineering Education: The Indian System” was conducted by Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, 15 Feb, 2021. The keynote speaker was Prof. Amitabha Ghosh, Honorary Scientist, Indian National Science Academy, New Delhi.

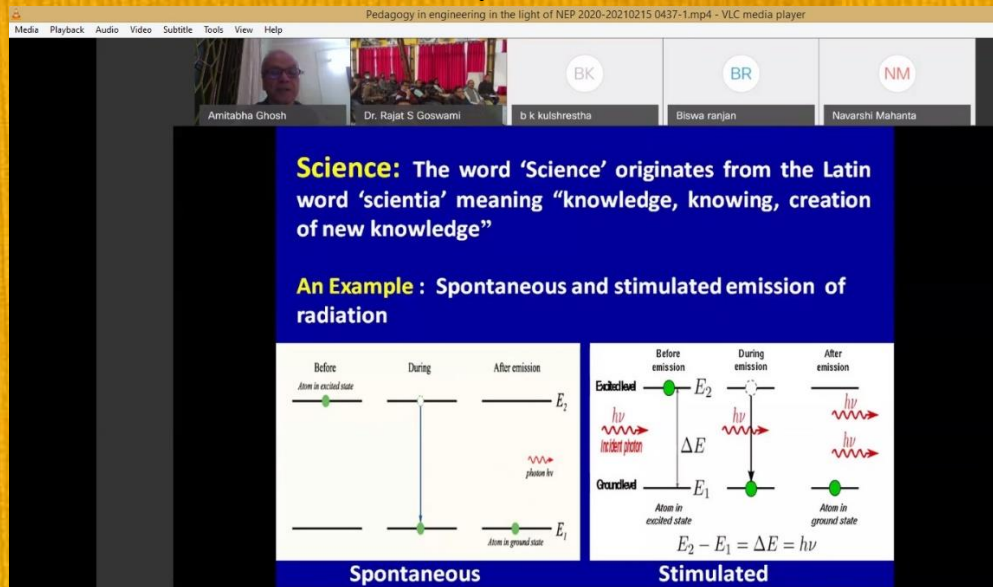


Photo: Prof. Amitabha Ghosh's Speech

11. 5 day online FDP on “Mathematics for Machine Learning” was conducted by Dr. Karam Ratan Singh, Assistant Professor, Dept. of BAS as Coordinator, sponsored by AICTE, 25-30 Jan, 2021.
12. 5 day online workshop on “Entrepreneurship and Innovation as a Career Opportunity” was conducted by Dr. M. M. Singh, Assistant Professor, Dept. of M&H as Coordinator, under IIC – Institute Innovation Council & Startup Cell, NITAP Sponsored by TEQIP III 18-22 Jan, 2021.
13. Online Instructional School for Teachers (IST) on “Linear Algebra” is being organized by Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, and Prof. Murali Srinivasan, Professor, Dept. of Mathematics, IIT Bombay, 20 Feb, - 28 Mar, 2021.

The image is a banner for the National Centre for Mathematics (NCMATH) and TIFR. It features the logos of IIT Bombay, NCMATH, and TIFR. The text includes "National Centre for Mathematics", "Advanced Training in Mathematics Schools", and "Online Instructional School for Teachers (IST) on 'Linear Algebra' by National Institute of Technology Arunachal Pradesh (20th February 2021 to 28th March, 2021)". It lists several speakers and their topics: R. Alam (Positive semidefinite matrices), Ritumoni Sarma (Inner product spaces), S. Pati (Spectral Theorem), Murali Srinivasan (Duality for network flows), S. Krishnan (Determinants), and R. K. Sharma (matrices, Gauss elimination). It also lists organizers: Dr. Ram Prakash Sharma and Prof. Murali Srinivasan.

Photo: IST on “Linear Algebra”

# Research and Development

## **Projects/Consultancy Works:**

1. Consultancy work was carried out by Dr Jumrik Taipodia, Assistant Professor, Dept. of CE and team for testing soil samples of Nitivihar landslide under the agency Arunachal Pradesh public work Department (APPWD).

## **Paper Publication/Presentation:**

1. Monami Chaudhuri and Dr. Vijayakumar presented a paper entitled "Online Education: New Challenges in Communication" in the Two-Day International Conference titled "Exploring Collaborative Research Opportunities in Humanities and Social Sciences - Beyond Boundaries" during Pan-NIT Humanities and Social Sciences Research Conclave (HSSRC) organised by the Department of Humanities and Social Sciences, National Institute of Technology, Warangal, 08-10 Jan, 2021.
2. Mousumi Nath and Dr. Vijayakumar presented a paper entitled "Exploration of Ecocritical Perspective in the Religion and Religious Festivals of the Mising Tribe" in the Two-Day International Conference titled "Exploring Collaborative Research Opportunities in Humanities and Social Sciences - Beyond Boundaries" during Pan-NIT Humanities and Social Sciences Research Conclave (HSSRC) organised by the Department of Humanities and Social Sciences, National Institute of Technology, Warangal, 08-10 Jan, 2021.
3. Deepak Gupta and Umesh Gupta, "On robust asymmetric Lagrangian v-twin support vector regression using pinball loss function" Applied Soft Computing, 102, 107099, 2021. (IF: 5.472)
4. Umesh Gupta and Deepak Gupta, "Regularized based implicit Lagrangian twin extreme learning machine in primal for pattern classification" International Journal of Machine Learning and Cybernetics, pp. 1-32, 2021 (IF: 3.753).
5. Umesh Gupta and Deepak Gupta, "Least squares large margin distribution machine for regression" Applied Intelligence, pp. 1-36, 2021 (IF: 3.325).
6. Umesh Gupta and Deepak Gupta, "On Regularization Based Twin Support Vector Regression with Huber Loss" Neural Processing Letters, pp. 1-57, 2021 (IF: 2.891).
7. Deepak Gupta, Ambika Choudhury, Umesh Gupta, Priyanka Singh, and Mukesh Prasad, "Computational approach to clinical diagnosis of diabetes disease: a comparative study" Multimedia Tools and Applications, pp. 1-26, 2021. (IF: 2.313).
8. Abhijit Paul, Anup Paul, "Thermomechanical Assessment of Breast Tumor Subjected to Focused Ultrasound and Interstitial Laser Heating" International Journal of Thermal Sciences, vol. 163, pp. 106815, 2021. (IF: 3.476)

9. Berlin M., N. Natarajan, Vasudevan M, Suresh Kumar G., "Impact of skin on the movement of nitrates in a fractured porous media: Numerical investigations" Arabian Journal for Science and Engineering, 2021. (Impact factor: 1.711), (Scopus & SCI)
10. Bhaskar Jyoti Gogoi and Prases K. Mohanty presented a paper entitled "A Braitenberg path Planning Strategy for E-puck Mobile Robot in Simulation and Real Time Environments" at "2<sup>nd</sup> Innovative Product Design and Intelligent Manufacturing Systems (IPDIMS)" organized by NIT Rourkela, 12-13 Feb, 2021
11. Bhaskar Jyoti Gogoi and Prases K. Mohanty presented a paper entitled "Path Planning of E-Puck Mobile Robot using Braitenberg Algorithm" at "Artificial Intelligence and Sustainable Engineering (AISE - 2020)" organized by NIT GOA, 18-20 Jan, 2021.
12. Prases K. Mohanty and Harshal S. Dewang, "A smart path planner for wheeled mobile robots using adaptive particle swarm optimization", Journal of the Brazilian Society of Mechanical Sciences and Engineering, Springer, 2021.
13. Dipen Saikia, Utpal Kumar Saha, Gopal Chandra Hazarika, "Atangana-Baleanu and Caputo-Fabrizio Analysis of Fractional Derivatives on MHD Flow past a Moving Vertical Plate with Variable Viscosity and Thermal Conductivity in a Porous Medium" International Journal of Mathematical, Engineering and Management Sciences, Vol. 6, No. 2, pp. 493-509, 2021.
14. Pabitra Kumar Guchhait, Dr. Abhik Banerjee and Dr. V Mukherjee, "Application of Posicast controller with SVC in wind-diesel hybrid power system model" 26 Feb 2021 in Applied Science under Springer Nature (accepted).
15. S.K. Panda, Mohammad G. Galety, Achyuth Sarkar, J. K. Dash, "Design Model of Copyright Protection System Based on Blockchain Technology" 06 Feb, 2021. (Paper Communicated)
16. Sivaraj, Kumaran G. V. Ramachandra Prasad, Anwar Beg, Ram Prakash Sharma, "Finite difference computation of free magneto-convective Powell-Eyring nanofluid flow over a permeable cylinder with variable thermal conductivity" Physica Scripta, (Phys. Scr.) 96, 025222, 2021. (I.F.-1.985, H-Index-75)
17. C Chunka, S Banerjee, R. S. Goswami, "An Efficient User Authentication and Session Key Agreement in Wireless Sensor Network Using Smart Card" Wireless Personal Communications (SCIE), pp. 1-25.
18. C Chunka, S Banerjee, "An Efficient Mutual Authentication and Symmetric Key Agreement Scheme for Wireless Body Area Network" Arabian Journal for Science and Engineering (SCIE), Feb, 2021. (Accepted)
19. Peide Liu, Abhijit Saha, Debjit Dutta, Samarjit Kar, "Multi-Attribute Decision-Making Using Hesitant Fuzzy Dombi – Archimedean Weighted Aggregation Operators" International Journal of Computational Intelligence Systems, vol. 14, no. 1, pp: 386-411, 2021. (SCI journal)

### **Book/Chapter Publication:**

1. Prof. M. K. Shome, Biplab Kumar Dey, "NPAs of the Indian Banking Industry", (translated into Nine languages English, French, Italian, Dutch, Polish, Portuguese, Russian, German, and Spanish), Lambert Academic Publishing, Germany.

### **Faculty Empowerment Programmes:**

1. Dr. Shubhajit Das, Dept. of ME attended workshop on "Entrepreneurship and Innovation as a Career Opportunity", organized by Institute Innovation Cell and Startup Cell, NITAP, 18-22 Jan, 2021.
2. Dr. Shubhajit Das, Dept. of ME attended workshop on "Career Development for Young Engineers", organized by the State Project Implementation Unit Technical Education Quality Improvement Programme, hosted by Govt. Engineering College, Bilaspur, Chattisgarh, 06 Feb, 2021.
3. Dr. Shubhajit Das, Dept. of ME completed Short Term Course on "Aerospace Technology: Theory and Practice", organised by Dept. of ME, IIT Guwahati, 17-21 Feb, 2021.
4. Dr. S. N. Deepa, Dept. of EE attended Twinning programme on "National Education Policy 2020", organized by Dept. of Electronics and Instrumentation Engineering, Govt. College of Technology, Coimbatore, Tamil Nadu, 18 Feb, 2021.
5. Dr. S. N. Deepa, Dept. of EE attended webinar on "Protection and commercialization of Intellectual Property", organized by National Research Development Corporation & Rajiv Gandhi National Institute of Intellectual Property Management, Nagpur, 24 Feb, 2021.
6. Dr. Sanjeev Kumar Metya, Dept. of ECE attended webinar on "Vision- & Sensor-based Activity Analysis for Healthcare & Related Domains" organized by OSA, 28 Feb, 2021.
7. Dr. Sanjeev Kumar Metya, Dept. of ECE attended webinar on "Balancing the photon budget for optical neurophysiology" organized by OSA, 26 Feb, 2021.
8. Dr. Sanjeev Kumar Metya, Dept. of ECE attended webinar on "Automated PIC Modelling: A Photonic Neural Network Use Case" organized by OSA, 25 Feb, 2021.
9. Dr. Sanjeev Kumar Metya, Dept. of ECE attended webinar on "Is Your Resume/CV an Autobiography or a Bestseller?" organized by OSA, 18 Feb, 2021.
10. Dr. Sanjeev Kumar Metya, Dept. of ECE attended webinar on "Multiphysics Modeling of MEMS" organized by OSA, 18 Feb, 2021.
11. Dr. Sanjeev Kumar Metya, Dept. of ECE attended webinar on "High Power Fiber Lasers" organized by OSA, 10 Feb, 2021.
12. Dr. Nabakumar Pramanik, Dept. of CHE attended webinar on "Teachers role in NEP-2020 implementation Awareness, orientation, challenges and responses" organized by NITAP, 12 Feb, 2021.
13. Dr. Nabakumar Pramanik, Dept. of CHE attended webinar on "Pedagogy in engineering in the light of NEP2020" organized by NITAP, 15 Feb, 2021.

14. Dr. A. Vanav Kumar, Dept. of BAS attended FDP on “NBA and the processes” organised by NIT, Mizoram, 01-05 Feb, 2021.
15. Dr. A. Vanav Kumar, Dept. of BAS attended “3<sup>rd</sup> IIC Meeting” organised by NITAP, 30 Jan, 2021.
16. Dr. A. Vanav Kumar, Dept. of BAS attended webinar on “India Education Summit” organized by Indian Express, 10 Feb, 2021.
17. Dr. A. Vanav Kumar, Dept. of BAS attended “Machine Learning Developers Summit 2021” organised by Analytic India Magazine, 11-12 Feb, 2021.
18. Dr. A. Vanav Kumar, Dept. of BAS attended webinar on “Teachers role in NEP-2020” conducted by NITAP, 12 Feb, 2021.
19. Dr. A. Vanav Kumar, Dept. of BAS attended conference on “Issues of Engineering Education: The Indian Situation” conducted by NITAP, 15, Feb, 2021.
20. Dr. A. Vanav Kumar, Dept. of BAS attended workshop on “Environmental Genomic Sand Genome Editing” organized by CET, IIT, Guwahati, 23-27 Feb, 2021.
21. Dr. Achyuth Sarkar, Dept. of CSE attended workshop on “Making classes interactive” organized by NIT, Jalander, 31 Jan, 2021.
22. Dr. Achyuth Sarkar, Dept. of CSE attended short term course on “Recent Trends and Applications in Machine Learning” organized by IIST, Shibpur, 15-19 Feb, 2021.
23. Dr. Achyuth Sarkar, Dept. of CSE attended workshop on “Modern Embedded Systems and Computing: Challenges and Opportunities” organised by Indian Academy of Industrial and Applicable Mathematics, Pune and Bhaskaracharya Pratishthana Pune and Quantam University, 19 Feb, 2021.
24. Dr. Uday Kumar Khanikar, Registrar, NITAP completed NPTEL online Certification Course on “Education Leadership” offered by IIT Kharagpur through SWAYAM.
25. Dr. Debjit Dutta, Dept. of BAS attended FDP on “Mathematics for Machine Learning” organized by NITAP, 25- 30 Jan, 2021.
26. Dr. Debjit Dutta, Dept. of BAS attended webinar on “Teachers Role in NEP-2020: Implementation, Awareness, Orientation, Challenges and Responses” organized by NITAP, 12 Feb, 2021.

## Faculty Awards and Achievements

1. Dr. Ananta Kumar Atta, Assistant Professor, Dept. of CHE was selected as Associate Editorial Board Member of “Current Analytical Chemistry” (SCIE Journal, IF: 1.36).
2. Dr. S. K. Metya, Assistant Professor, Dept. of ECE was a reviewer of “International Journal of Computing and Digital Systems”.
3. Dr. S. K. Metya, Assistant Professor, Dept. of ECE was invited as Technical Program Committee & Reviewer of “3<sup>rd</sup> International Conference on Communication, Devices and Computing (ICCDC-2021)”, Haldia Institute of Technology.
4. Dr. S. K. Metya, Assistant Professor, Dept. of ECE was a reviewer of “Optical & Quantum Electronics”, Springer.

5. Prof. M. K. Shome, Professor, Dept. of M&H Chaired a session of “Challenges and Prospects in Management in the VUCA World”, Symbiosis Institute of Business Management, Nagpur, 16-17 Feb, 2021.
6. Prof. M. K. Shome, Professor, Dept. of M&H received *International Golden Award 2020* at “International Conference on New Frontier in Engineering, Science, Law, Management, Humanities, and Social Sciences 2020 2.0” by Eudoxia Research Centre of Eudoxia Education Private Limited, Guwahati.
7. Prof. M. K. Shome, Professor, Dept. of M&H was awarded *National Eminent Academic Leader 2020* by “International Institute of Organized Research (I2OR)”.
8. Dr. Abhik Banerjee, Assistant Professor, Dept. of EE was a *reviewer* of Expert system under ELSEVIER publication, 21 Jan, 2021.
9. Dr. Brajagopal Datta, Assistant Professor, Dept. of EE was a *reviewer* of “International Journal of Emerging Electric Power Systems”.
10. Dr. Vijayakumar, Assistant Professor, DoMH chaired a session in the in the Two-Day International Conference titled “Exploring Collaborative Research Opportunities in Humanities and Social Sciences - Beyond Boundaries” during Pan-NIT Humanities and Social Sciences Research Conclave (HSSRC) organised by the Department of Humanities and Social Sciences, National Institute of Technology, Warangal, 08-10 Jan, 2021.
11. Dr. Anup Paul, Assistant Professor, Dept. of ME was a *reviewer* of “Lasers in Surgery and Medicine”, Wiley.
12. Dr. S. N. Deepa, Associate Professor, Dept. of EE, NITAP nominated as member of *Executive Committee* of NIELIT, Itanagar Centre, Arunachal Pradesh.

## Student Activities

### Project

1. Ajay Yadav, M.Tech Scholar, Dept. of ECE completed a project entitled “Investigation on the use of Holographic Optical Elements in Fiber Optical Communication” in Photonics Laboratory, NIT Jamshedpur under the joint supervision of Dr. Sahadev Roy, Asst. Professor, Dept. of ECE, NITAP and Prof. Hira Lal Yadav, Dept. of Physics, NIT Jamshedpur.

### Thesis Submitted:

1. Dipen Saikia defended his thesis entitled “A Numerical Study of Atangana Baleanu and Caputo Fabrizio Analysis of Fractional Derivatives for Certain Heat and Mass Transfer Problems of Fluid Mechanics” on 6<sup>th</sup> Jan, 2021, under Dr. U. K. Saha as Supervisor and Prof. G. C. Hazarika as Co-Supervisor.
2. Mr. Pabitra Kumar Guchhait, defended his thesis on 9<sup>th</sup> Feb, 2021, under Dr. Abhik Banerjee as Supervisor, Dept. of EE, NITAP.




### Synopsis Presented:

1. Sayan Sikder presented his Ph.D Synopsis on 03 Feb, 2021 under Dr. Sanjeev Kumar Metya as supervisor and Prof. Susanta Chakraborty, Indian Institute of Engineering Science and Technology, Shibpur as an external expert of RAC.

## Outreach Activities

### EBSB Cell:

Ek Bharat Shreshtha Bharat (EBSB) Club, NITAP celebrated Mother Language Day 2021 and organized by Dr. K. Vijayakumar, Coordinator and EBSB Club Members. The following events were organized: Slogan Writing Competition on the theme “Importance of using Mother Tongue”, Painting Competition on the theme “Culture of Arunachal Pradesh” and Special Talk on Languages of Arunachal Pradesh. The speakers were Ms. Ponung Ering Angu, Joint Director, Dept. of. Women and Child Development, Govt. of Arunachal Pradesh, Arunachal Pradesh and Mr. Banwang Losu, Wancho Script Developer, Arunachal Pradesh, 23-24 Feb, 2021.

Slogan Writing Winner	Slogans
<b>Shriharmender Kant</b> MBBS 2 <sup>nd</sup> year AIIMS Rishikesh	Mother tongue is the lyric of our spirit
<b>Amit Kumar</b> B.Tech 4 <sup>th</sup> year NIT-AP	Strengthen your own roots then water others
<b>Shantanu Banerjee</b> B.Tech 2 <sup>nd</sup> year NIT-AP	Mother language carries history, heritage, honor.
Painting Competition	Paintings
<b>Madap Wage</b> B.Tech 1 <sup>st</sup> year NIT-AP	

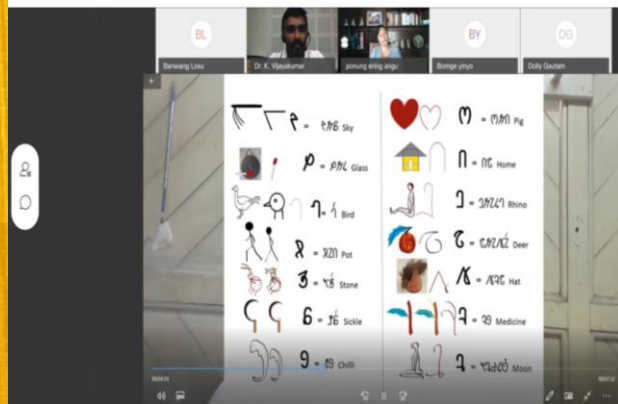
**Chittabarni Sarkar**  
Ph.D NIT-AP



**Hage Sille**  
B.Tech 3<sup>rd</sup> year  
NIT-AP



Mother Language Day Celebration -20210224 ...



*Photo: Ms. Ponung Ering Angu and Mr. Banwang Losu's Lecture*

### **Republic Day Celebration 2021:**

The 72<sup>nd</sup> Republic Day on 26<sup>th</sup> January 2021, (Tuesday) was celebrated at NITAP, Yupia. Prof. Pinakeswar Mahanta, Director, NITAP hoisted National Flag and delivered Republic Day speech.



*Photo: Republic Day Celebration 2021 at NITAP*

### **NCC Cell:**

Lt (Dr.) Achyuth Sarkar, NCC Coordinator, Assistant Professor, Dept. of CSE, attended and interacted with ADG. Maj Gen Ananta Bhuyan, Addl Director General, NCC, NE Region during his visit to 1<sup>st</sup> AP Battalion for ADG Conference, 10 Feb, 2021.

### **MECH-A-KNIGHT Freshers, 2021:**

An online MECH-A-KNIGHT fresher, 2021 was organized by Mechanical Engineering Students Society (MESS) on 21 Feb, 2021. A quiz and debate competition were organized during the programme. The Winners are as follows:

1. Rishav Kumar (ME/20/21) - Winner
2. Akhil Kumar Verma (ME/20/28) - 1<sup>st</sup> Runner up
3. Puroshottamsah (ME/20/01) - 2<sup>nd</sup> Runner up.

# Announcement

## International Conference:

NITAP is organizing, 3<sup>rd</sup> International Conference on “Machine Intelligence and Signal Processing (MISP2021)”, from 23<sup>rd</sup> to 25<sup>th</sup> September, 2021.

For more information about the conference, please visit the website <https://www.misp.nitap.ac.in>.

### Important Dates for Research Papers:

- Submission Deadline: April 1, 2021
- Acceptance Notification: May 1, 2021
- Camera Ready Submission: May 10, 2021
- Registration: May 15, 2021



## Webinar:

IPR Cell, NITAP is organizing a webinar on “Intellectual Property Rights (IPRs) & IP Management for Start-up”, from 05-06 Mar, 2021

For more information about the webinar, please visit the website <https://www.misp.nitap.ac.in>.

**Webinar on**  
**Intellectual Property Rights (IPRs)  
& IP Management for Start Up**

**ORGANIZED BY**  
IPR Cell of National Institute of Technology, Arunachal Pradesh  
&  
Research Promotion Cell of Saint claret College, Ziro, Arunachal Pradesh

**Sponsored By**  
TE OIP-3

**Event**  
Date : 5-6<sup>th</sup> March 2021  
Time : 2:30 to 5:00 PM

**Patrons**  
Prof. Pinakeswar Mahanta (Director, NIT,  
Dr. (Fr.) Allwyn Mendoz (Principal, SCCZ)

**Coordinators**  
Dr. Saikat Kumar Jana (NIT, AR, IPR CELL)  
Dr. Bhaboklang Sohkhlet (SCCZ, RPC)

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