

Vol. - IV

Issue - 5

TECHNODAYA



National Institute of Technology
Arunachal Pradesh

Sep. - Oct. 2021

Director's Message



Prof. Pinakeswar Mahanta
Director
NIT Arunachal Pradesh

Greetings!

It's an immense pleasure to share a good news that NITAP secured 160th Rank in NIRF 2021 and I would like to convey my gratitude to all the peer reviewers on behalf NITAP fraternity.

Technodaya, Volume-IV, Issue- 5 is published and brought to your notice. During the last two months (September - October, 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 Govt. Secondary School Jote, signed Memorandum of Understanding under Unnat Bharat Abhiyan (UBA), North East Centre for Technology Application and Reach (NECTAR), Research for Resurgence Foundation (RFRF) and Abhyaz MTAB Technology, QIP sponsored online Short Term Courses, External funding project from DST, ATAL Workshops, 24 research papers in International/National Journals/Conferences, and so on. As outreach activities, Poster and Debate Competitions by EBSB Club, Science Classes for students of Govt. Secondary School Jote, Impact Lecture Series of the Institution's Innovation Council (IIC), Hindi Pakhwada 2021 and Swachhta Pakhwada 2021, were organized.

I wish you all good health and stay safe.

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-editor Dr. Shubhajit Das, Assistant Professor, Dept. of ME for the 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

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Assistant Professor
Dept. of ME

Academic Activities

Memorandum of Understanding (MoU):

1. National Institute of Technology, Arunachal Pradesh and Govt. Secondary School Jote, signed Memorandum of Understanding under Unnat Bharat Abhiyan (UBA) on 12.10.2021. Students of Govt. Secondary School Jote will visit the laboratories and interact with faculty members. Faculty members of NITAP will conduct classes for the students. During the event, Prof. Pinakeswar Mahanta, Director, Dr. Uday Kumar Khanikar, Registrar, NITAP with other faculty members, Shri. Tana Tagu Tara, DDSE, Papumpare, Shri Taba Larnin, Headmaster I/C along with school teachers were present. The Hon'ble Shri Tana Hali Tara, Member of Legislative Assembly, Doimukh was the Chief Guest of the programme.



Photo: MoU between NITAP and Govt. Secondary School, Jote

2. National Institute of Technology, Arunachal Pradesh and the North East Centre for Technology Application and Reach (NECTAR), signed Memorandum of Understanding. The purposes are Training, Research and Collaboration and Start-up Business Models. During the event, Prof. Pinakeswar Mahanta, Director, Dr. Uday Kumar Khanikar, Registrar, NITAP with other faculty members and the authorities and officers of NECTAR were present.
3. National Institute of Technology, Arunachal Pradesh and Research for Resurgence Foundation (RFRF), signed Memorandum of Understanding. During the event, Prof. Pinakeswar Mahanta, Director, Dr. Uday Kumar Khanikar, Registrar, NITAP with other faculty members and the authorities and officers of RFRF were present.
4. National Institute of Technology, Arunachal Pradesh and Abhyaz MTAB Technology, signed Memorandum of Understanding. During the event, Prof. Pinakeswar Mahanta, Director, Dr. Uday Kumar Khanikar, Registrar, NITAP with other faculty members and the authorities and officers of Abhyaz MTAB Technology were present.

Fellow of The Institution of Engineers:

Prof. Pinakeswar Mahanta, Director, NITAP has been conferred upon as **The Fellow of the Institution of Engineers (FIE) of India** by The Institution of Engineers (India).

Following statutory meetings were held during the period of September and October, 2021:

SL No	Name of the Activities	Date of Activities
1	23 rd FC (blended mode)	18/08/2021
2	37 th BoG (blended mode)	18/08/2021
3	34 th Senate Meeting (blended mode)	14/09/2021

National Conference on the Celebration of Gandhi Jayanti 2021

NITAP organized a National Conference on Gandhi Jayanti. During the event, a special talk was delivered by the Guest of Honor, Prof. Ramesh K Arora, Former Dean, University of Rajasthan, Jaipur and the Chief Guest Prof. Sanjeev Kumar Sharma, Vice Chancellor, Mahatma Gandhi Central University, Motihari (Bihar). The meeting was presided over by Prof. Pinakeshwar Mahanta, Director, NITAP. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME and Dr. Achyuth Sarkar, Assistant Professor, Dept. of CSE coordinated the event.

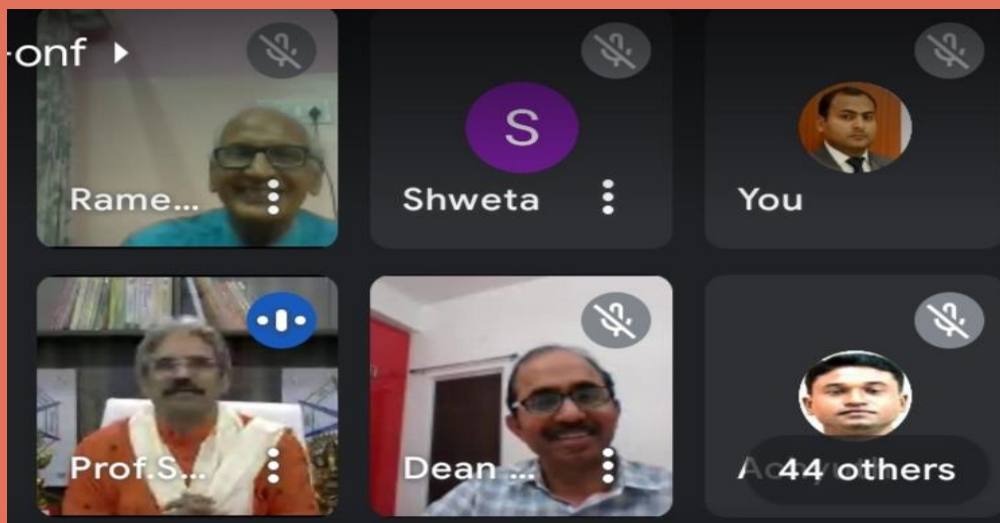
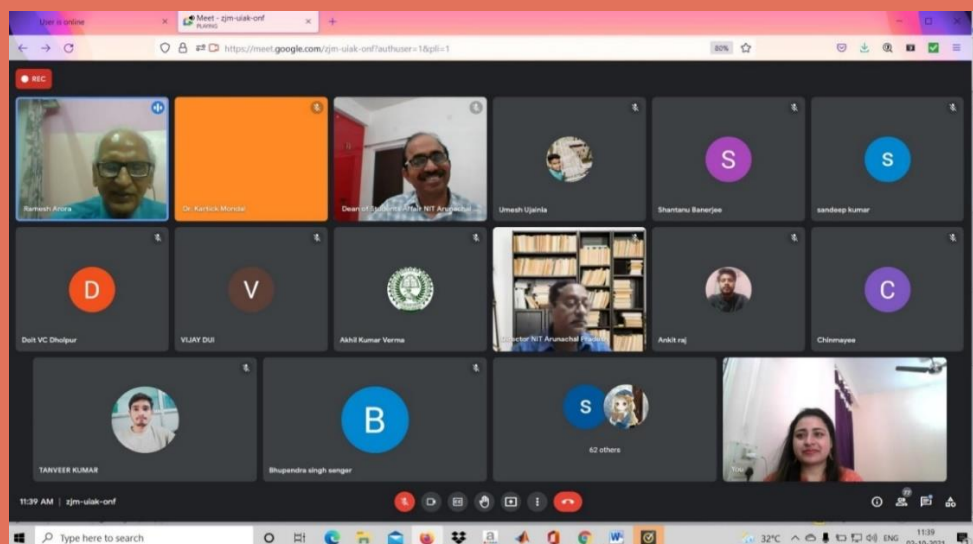


Photo: National Conference on the Celebration of Gandhi Jayanti 2021

Quality Improvement Programme QIP Centre (Minor):

QIP Centre (Minor) is established in the Mechanical Block of NIT Arunachal Pradesh, Jote campus.



Photo: QIP Centre

Invited/ Expert Lectures:

1. Prof. Pinakeswar Mahanta, Director, NITAP delivered a keynote lecture on “Recent Development in Cogeneration of Biomass with Coal” in the International Conference on Recent Advances in Mechanical Engineering Research and Development (ICRAMERD-2021) organized by SOA University Odisha, 24 September, 2021.
2. Prof. Pinakeswar Mahanta, Director, NITAP delivered a special lecture on “Strengthening of Technical Education of North Eastern Region”, organized by NERIST, Arunachal Pradesh, 28 October, 2021.

3. Prof. Pinakeswar Mahanta, Director, NITAP delivered an inaugural address in “MISP 2021” organized by Dept. of CSE, NITAP, 23 September 2021.
4. Prof. Pinakeswar Mahanta, Director, NITAP delivered an inaugural address in “Impact Lecture of the IIC on “Startup and Innovation” organized by IIC & Startup Cell, NITAP, 27-28 September 2021.
5. Prof. Pinakeswar Mahanta, Director, NITAP delivered an inaugural address in “National Conference on the Celebration of Gandhi Jayanti” organized by NITAP, NITAP, 02 October 2021.
6. Dr. M. Berlin, Assistant Professor, Dept. of CE delivered a lecture on “Influence of Temperature and Dissolved Oxygen on the Transport of Nitrate in Porous Media” in National Level Faculty Development Program in Civil Engineering held between 28 – 30 September 2021 organized by Department of Civil Engineering, St. Thomas College of Engineering & Technology, Kozhuvallur, Chengannur, Kerala.
7. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME delivered expert lecture on “Secret of success” in a one-week workshop on Career Psychology & Guidance organized by Swami Vivekanand career guidance cell Govt. P.G. College, Sheopur (M.P.) & Govt. Adarsh Girls college, Sheopur (M.P.), 29 September, 2021.
8. Dr. Ananta Kumar Atta, Assistant Professor, Dept. of CHE delivered expert lecture in “International Conference on Analytical and Bioanalytical Methods”, Washington St, Newton, United States, 18-20 October, 2021.

Workshop/FDP/Seminar/Conference/Webinar:

1. One week QIP sponsored online Short Term Course on ‘Mechatronics and Manufacturing Automation (MMA 2021)’ was conducted by Dr. Shubhajit Das, and Dr. Prases Kumar Mohanty, Assistant Professor, Dept of ME, NITAP, Jote, 04-08 October 2021. A total of 45 participants registered for the program.

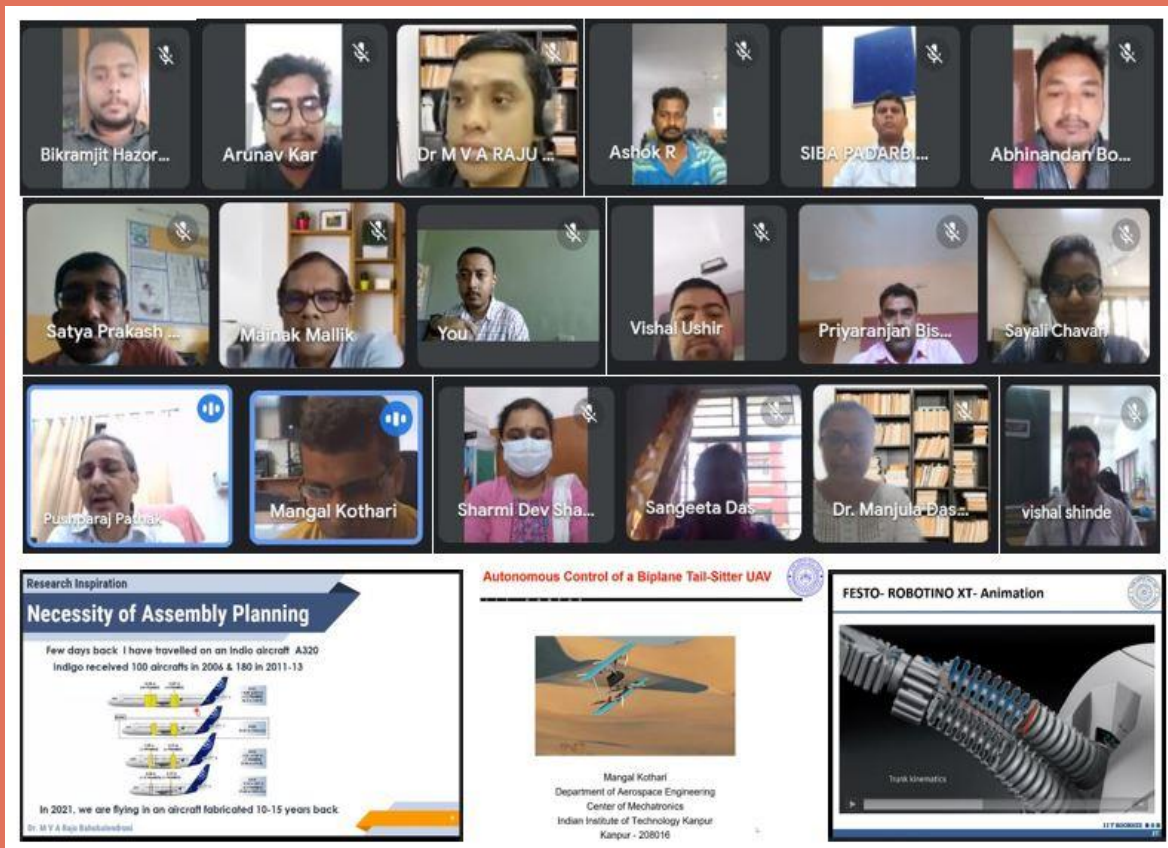
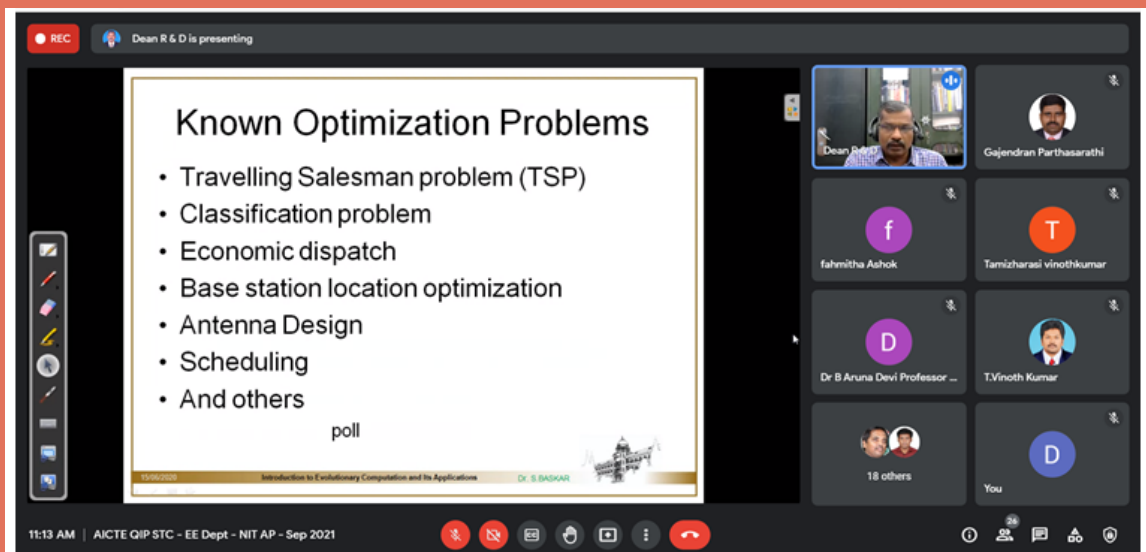


Photo: Short Term Course on 'Mechatronics and Manufacturing Automation (MMA 2021)'

2. One week QIP sponsored online Short Term Course on “Computational Intelligent Models for Electrical Engineering Applications” was conducted by Dr. S. N. Deepa, Associate Professor and Dr. Abhik Banerjee, Assistant Professor, Dept. of EE, NITAP, Jote, 06-10 September 2021.



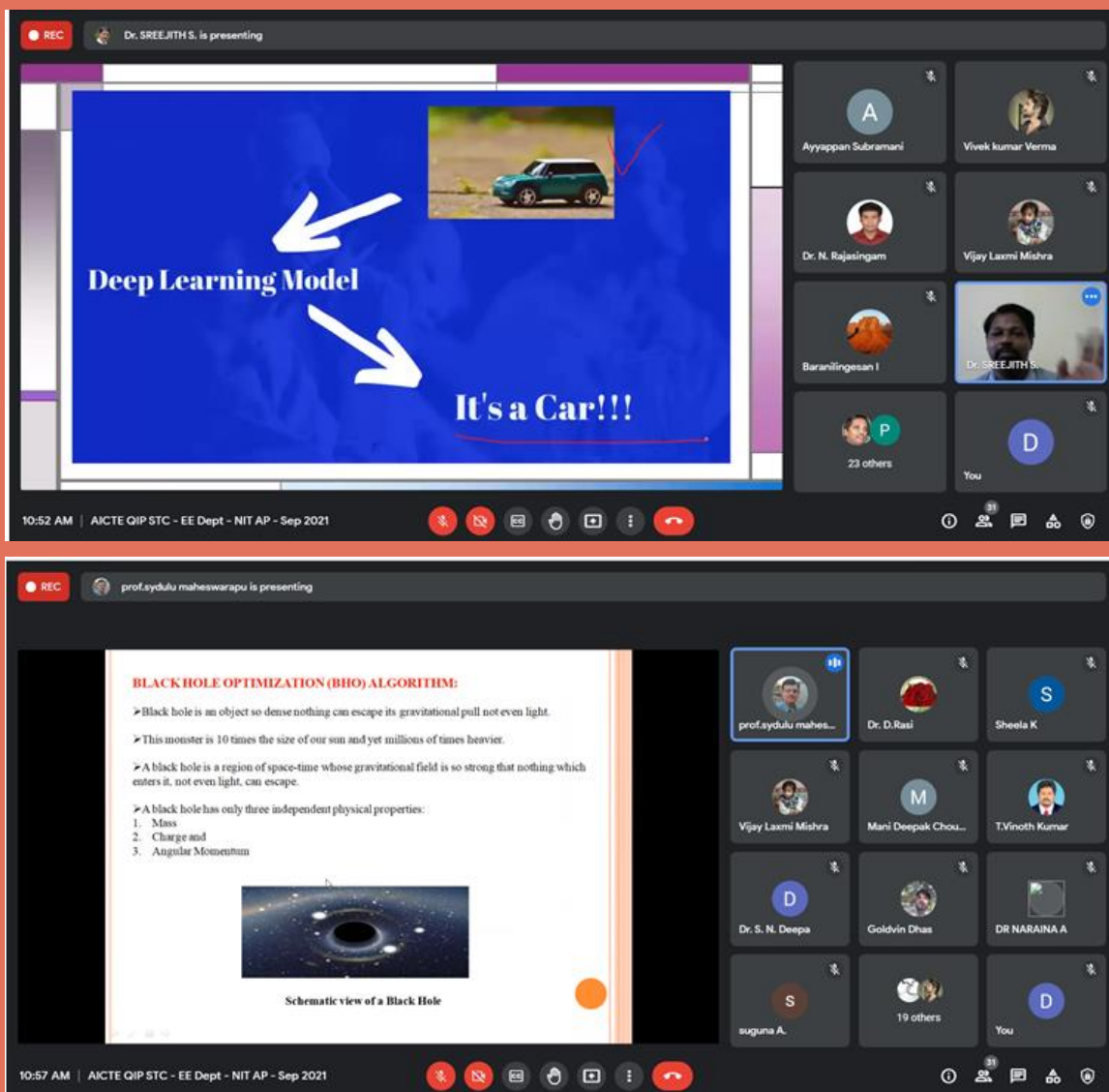


Photo: Short Term Course on “Computational Intelligent Models for Electrical Engineering Applications”

3. 5 day online ATAL FDP on “Stress Busting Meditation Sitzings” was conducted by Dr. M. M. Singh, Assistant Professor, Dept. of MH, NITAP, Jote, 20-24 September 2021.
4. One Week ATAL sponsored Online Faculty Development Programme (FDP) on “Development and Applications of Sensors in Modern Life” was conducted by Dr. Ananta Kumar Atta, Assistant Professor, Dept. of CHE, NITAP, Jote, 25-29 October 2021.

5. One week QIP sponsored online Short Term Course on ‘Thermal and Renewable Energy Storage Techniques for Effective Energy Management’ was conducted by Dr. Dipak Sen, Assistant Professor, Dept of ME, NITAP, Jote, 25-29 October 2021.

Research and Development

Projects:

1. Dr. Prases Kumar Mohanty, Assistant Professor, Dept. of ME received an external project titled “Disaster Monitoring and Management using Multi-Copter Technology”. Funding Agency: DST Govt. of India.
2. Dr. Achyuth Sarkar, Assistant Professor, Dept. of CSE, submitted project on “Image Recognition Mapping of Critically Endangered Medicinal Plants of Arunachal Pradesh: Conservation Cultivation, Processing and Sustainable Utilization for Socio-economic Empowerment of ST Population”, STI, ST (DST-2021).

Paper Publication/Presentation:

1. Rajesh.R. and Deepa.S.N., “Design of State Feedback LQR Based Dual Mode Fractional-Order PID Controller using Inertia Weighted PSO Algorithm: For Control of an Underactuated System”, Springer - Journal of The Institution of Engineers (India): Series C-Scopus Indexed, <https://doi.org/10.1007/s40032-021-00756-x>, Published online October 5, 2021.
2. R. Balamurugan, A. Vanav Kumar, Unsteady Casson fluid flow subject to Natural Convection and Quadratic free convection along with applied transverse magnetic field, 59, November 2021, Indian Journal of Pure & Applied Physics, CSIR-NISCAIR Publications, 756-767, IF = 0.923 (JCR 2020).
3. A. Vanav Kumar, participated & completed successfully AICTE Training and Learning

(ATAL) Academy Online Elementary FDP on “Introduction to Financial Mathematics: Exploring the Machine Learning Approach for Option Pricing Problems in Stock Market” at Dr. SPM International Institute of Information Technology Naya Raipur, 19-23 August 2021.

4. A. Vanav Kumar, presented a paper titled “Modeling of Fractal-Fractional time derivative of MHD fluid moving through a channel” in the online conference on recent trends in Mathematical modelling and its Applications (NCRTMMA-2021), 23-27, August 2021, Department of Mathematics, ICFAI Science School, The ICFAI University Tripura.
5. A. Vanav Kumar, participated in “National workshop on Statistical computing using R” held during 15-17, September 2021 conducted by Department of Statistics and Applied Mathematics, Central university of Tamil Nadu, Thiruvavur.
6. A. Vanav Kumar, presented a paper entitled “Modeling Fractal Fractional time derivative- An application to Casson fluid flow” in the Second International Workshop on “Advanced Topics in Mathematics-2021”, organized by the Centre for Applied Mathematics, International Institute of Information Technology, Naya Raipur, during October 08 - 12, 2021.
7. A. K. Garg, S. K. Metya, G. Singh, V. Janyani, M. H. Aly, H. Z. Abidin "SMF/FSO integrated dual-rate reliable and energy efficient WDM optical access network for smart and urban communities", Optical and Quantum Electronics, vol. 53, issue 11, 625, 2021.
8. S. Awasthi, S. K. Metya and A. Majumder "MZI based Electro-Optic Reversible XNOR/XOR Derived from Modified Fredkin Gate", 3rd International Conference on Machine Intelligence and Signal Processing (MISP 2021), Sep. 23-25, 2021.
9. S. Awasthi, B. Chowdhury, M. A. Ali, J. Ali, P. Yupapin, S. K. Metya and A. Majumder "Analysis for Cost Optimized EO Design of a Reversible Boolean Function using MZIs", 5th International Conference on Optical & Wireless Technologies (OWT 2021), Oct. 9-10,

2021.

10. D. Sarkar, S. K. Metya, S. Nagaraj and Anand P. K "Evolution of TDM-PON to WDM-PON using downstream MSK and remodulated upstream ASK", 5th International Conference on Optical & Wireless Technologies (OWT 2021), Oct. 9-10, 2021.
11. I. Chitresen, Rajen Pudur 2021 "Optimization of Hybrid System for an Institute and a Hospital" Journal of Design Engineering (SCOPUS), issue 07, pp-871-883
12. I. Citrasen, Rajen Pudur "Optimization of Wind Solar and Battery Hybrid Renewable System using Back Track Search Algorithm" Indonesian Journal of Electrical Engineering and Computer Science (SCOPUS) Vol- 99, (Accepted) 2021.
13. I. Chitrasen, Rajen Pudur, "Optimize Model of Hybrid Renewable System with Minimum Power Fluctuation Rate" IEEE 6th International Conference on Computing, Communication and Automation (ICCCA) (Accepted), 2021.
14. S. Chakraborty, Rajen Pudur, "Supply of Single-Phase Power for Rural Area using Three-Phase Self-Excited Induction Generator" IEEE 2021 Asian Conference on Innovation in Technology (ASIANCON), 27-29 Aug 2021, Pune, DOI: 10.1109/ASIANCON51346.2021.9545057, 2021.
15. Prases K. Mohanty, Anand Kumar Singh, Amit Kumar, Manjeet Kumar Mahto "Path Planning of a Mobile Robot in Unknown Environments using Fuzzy Logic Based Hybrid Controller", International Symposium on Advances in Intelligent Robotics & Industrial Automation (IRIA), IIT Goa, September 20-22, 2021.
16. A. Das, T. Ringu, A. Mahapatra, and N. Pramanik, "Bionanocomposites for bioengineering applications: An overview," 74th Annual Session of Indian Institute of Chemical Engineers, Indian Chemical Engineering Congress (CHEMCON 2021), International Conference, Jointly organized by Indian Institute of Chemical Engineers and Institute of Minerals and Materials Technology in association with Institute of Chemical Technology,

December 27-30, 2021, Bhubaneswar, Odisha, India (Accepted for presentation).

17. Md Faysal Kabir, Sahadev Roy, "Hazard Perception Test Among Young and Inexperienced Drivers and Risk Analysis While Driving Through A T-Junction," Decision Making: Applications In Management and Engineering (Scopus).
18. Kaushal Mukherjee, Subhadeep Mukhopadhyay, Sahadev Roy, "Компактная многодиапазонная антенна с CPW питанием для систем связи 5G," Известия высших учебных заведений. Радиоэлектроника, Volume 64, Year 2021, Pages 514—524. DOI:10.20535/S0021347021080057 (Russian Science Citation Index)
19. Kaushal Mukherjee, Subhadeep Mukhopadhyay, and Sahadev Roy, "Compact CPW-fed Multiband Antenna for 5G Communication," Radioelectronics and Communications Systems, Volume 64(8), Year 2021, Pages 451-459 DOI:10.3103/S0735272721080057 (Scopus)
20. Kaushal Mukherjee, Subhadeep Mukhopadhyay, Sahadev Roy, "Design of a Wideband Y-shaped Antenna for the Application in IoT and 5G communication," Article International Journal of Communication Systems, Volume 34(18), Year 2021, Pages 1-14 DOI:10.1002/dac.5021 (Science Citation Index Expanded, Scopus).
21. S. Jena, P. K. Pattnaik, Kishan Singh Shekhawat, and Ram Prakash Sharma, An investigation on non-Darcy nanofluid flow due to the interaction of inclined magnetic field and nonlinear radiation, GANITA, Vol.71(1), 2021, 215-220.
22. S. R. Mishra, Seema Tinker, Ram Prakash Sharma, Study of a nonuniform heat source over a Riga plate using nth-order chemical reaction on Oldroyd-B nanofluid flow for two-dimensional motion, First published: 12 October 2021, Heat Transfer. <https://doi.org/10.1002/htj.22351>
23. Ram Prakash Sharma, S M Ibrahim, S. R. Mishra and Seema Tinker, Impact of thermal radiation and heat source on MHD dissipative flow across the slendering stretching sheet

with temperature dependent variable viscosity, Heat Transfer, 50(8) (2021) 7568-7587, John Wiley & Sons, Inc.111 River St. Hoboken, NJ 07030-5774 USA. <https://doi.org/10.1002/htj.22243>.

24. Ram Prakash Sharma, Sachin Shaw, S. R. Mishra and Seema Tinker, Exploration of radiative heat on magnetohydrodynamic rotating fluid past a vertical sheet, Heat Transfer, 50(8) (2021) 8506-8524, <https://doi.org/10.1002/htj.22287>.

Book/Chapter Publication:

1. Saha U.K. (2022) ‘On the Generalized Fractional Calculus Operators Involving the H-Function of Several Variables’. In: Srivastava P., Thakur S.S., Oros G.I., AlJarrah A.A., Laohakosol V. (eds) Mathematical, Computational Intelligence and Engineering Approaches for Tourism, Agriculture and Healthcare. Lecture Notes in Networks and Systems, vol 214, pp.243-251, Springer, Singapore. https://doi.org/10.1007/978-981-16-3807-7_19, First online 20 October 2021.
2. Dr. Debjit Dutta and Dr. Abhijit Saha, “An Introduction to Basic Number Theory” Prentice Hall of India, ISBN No. 978-93-90544-47-9, September, 2021.
3. Saikat Samanta, Achyuth Sarkar, Charu Gupta, Aditi Sharma “Machine learning Integrated Blockchain Model for Industry 4.0 Smart Applications” De Gruyter Book: Knowledge Engineering for Modern Information Systems (SCI Index, Book Chapter)
4. Saikat Samanta, Achyuth Sarkar, Aditi Sharma, “Security and Challenges for Cognitive IOT Based Future City Architecture” of MISIP 2021, Springer AISC book series.
5. Saikat Samanta, Achyuth Sarkar, Yaka Bulu, “Secure Smart City Infrastructure Using Digital Twin and Blockchain” AICTC 2021, Springer "Lecture Notes in Networks and Systems (LNNS)" Book series.
6. Saikat Samanta, Achyuth Sarkar, Aditi Sharma, Oana Geman , “Security and Challenges

for Blockchain Integrated Fog Enabled IoT Applications” ICADCML 2022, Springer "Lecture Notes in Networks and Systems (LNNS)" Book series.

7. Joyir Siram, Koj Sambyo, Achyuth Sarkar, “Part _of_ Speech (POS) tagging for the Nyishi Language”, AICTC 2021, Springer "Lecture Notes in Networks and Systems (LNNS)" Book series.
8. Pritimoy Sanyal, Achyuth Sarkar, “Application of Computer Science in Pineapple Cultivation and Diagnosis of its Diseases: A Systematic Study”, INDICON, IIT Guwahati, IEEE.
9. Joon Jyoti Deka, Achyuth Sarkar, “Elmo Embedding for Sarcasm Detection”, AICTC 2021, Springer "Lecture Notes in Networks and Systems (LNNS)" Book series.

Faculty Empowerment Programmes:

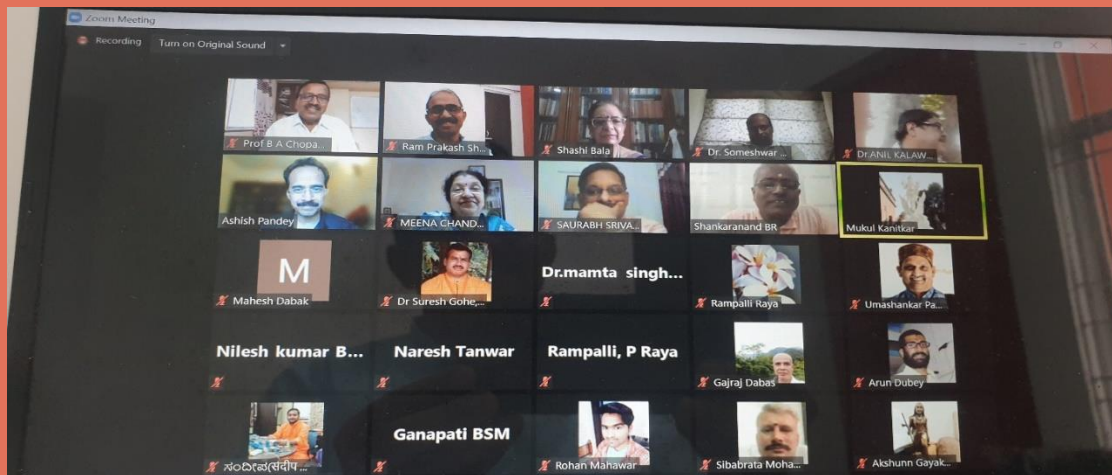
1. Dr. U. K. Saha, Assistant Professor, Dept. of BAS, NITAP attended the GUJCOST(DST, Govt. of Gujarat) sponsored International Symposium on “Recent Advances in Fractional Calculus” organized by Department of Mathematical Sciences, P. D. Patel Institute of Applied Sciences (PDPIAS), Charotar University of Science and Technology (CHARUSAT), Changa (388 421), Gujarat, India held on 30th September and 1st October, 2021.
2. Dr. S. N. Deepa, Associate Professor, Dept. of EE attended “a webinar on the topic ‘Strategies for High-Quality Research”, by Dr. Manoj B.S., Professor at the Department of Avionics in the Indian Institute of Space Science and Technology organized as a part of IEEE Tri-Webinar Series on Various Aspects of Academic Research by IEEE EdSoc Kerala and Hyderabad Chapters. 19 September, 2021.
3. Dr. Mainak Mallik, Associate Professor, Dept. of CE attended a workshop on "Microstructural Characterization Techniques and Mix Design of Special Concretes"

organized by CSIR-SERC, Chennai, through online mode, 15-17 September, 2021.

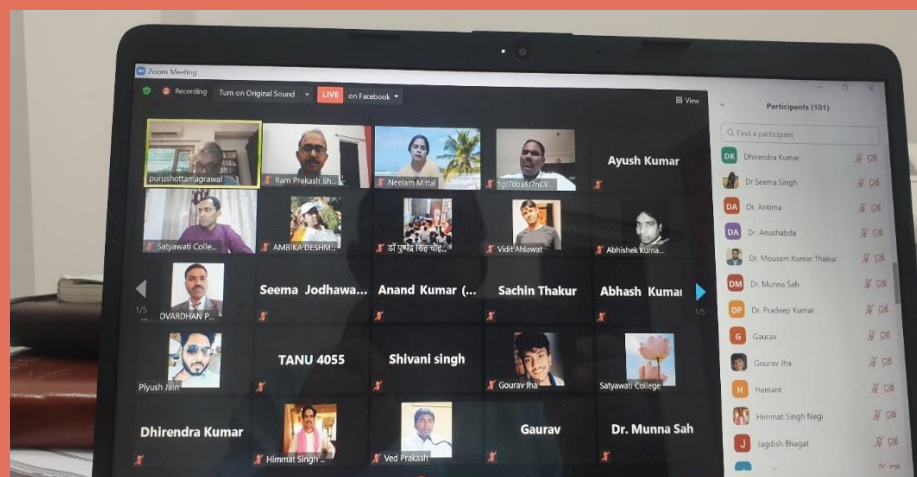
4. Dr. Sanjeev Kumar Metya, Assistant Professor, Dept. of ECE attended webinar on “How Design Tools Help You to Leverage Photonic Integration”, September 1, 2021 (OSA).
5. Dr. Sahadev Roy, Assistant Professor, Dept. of ECE participated in the short-term course on “Mechatronics and Manufacturing Automation (MMA 2021)” conducted by Department of Mechanical Engineering, National Institute of Technology, Arunachal Pradesh under the Quality Improvement Programme (QIP) sponsored by AICTE /Ministry of Education, Government of India, during 04-08 October, 2021.
6. Dr. M. Berlin, Assistant Professor, Dept. of CE attended webinar on “Reservoir Modelling Fundamentals”, organized by RESERVOIR SOLUTIONS, Ltd, 30 October 2021.
7. Dr. M. M. Singh, Assistant Professor, Dept. of MH attended webinar on “Online Review Session on Policy (NISP) Implementation”, organized by MoE Innovation Cell, 07 September, 2021.
8. Dr. M. M. Singh, Assistant Professor, Dept. of MH attended webinar on “Good Governance”, jointly organized by MoE AICTE, 01 October, 2021.
9. Dr. M. M. Singh, Assistant Professor, Dept. of MH attended webinar as a panel member for focus group discussion on “Human Resource Development Sectors of NER”, organized by MDoNER, 17 October, 2021.
10. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, participated in ‘A Virtual Teachers' Day Celebration’, jointly organized by Mahamana Commerce Confluence & Bhartiya Shikshan Mandal, Kashi Prant at 10:00 AM, 05 September, 2021.
11. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, participated in ‘Teachers' Day Celebration’ 2021 at NIT Arunachal Pradesh on the auspicious occasion of the birth anniversary of Dr. Sarvepalli Radhakrishnan at 6:00 PM, 05 September, 2021 in the online mode. Prof. Rajat Gupta, Professor, Department of Mechanical Engineering, NIT Silchar

delivered a special speech.

12. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, participated in 'Namaste Rashtriya Anusandhan Prakosth', by Prof. Shashi Bala, a renowned Indologist, Dean of Bhavan's K M Munshi Centre for Indology, on Chair- Acharya Raghuvera, Bharatiya Vidya Bhawan, New Delhi., 05 September, 2021.



13. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, participated in the distinguished lecture Pratibimb, Sahitya Samvad-2021 organized by Department of Hindi, Satyawati College, University of Delhi " held on Sep 4, 2021 04:00 PM India.



14. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, participated in one day National Webinar on “National Professional Standards for Teachers (NPST): A Step towards Professional Development of Teachers in India”, organized by Department of Education, Central University of Rajasthan in Collaboration with National Council for



15. Dr. Achyuth Sarkar, Assistant Professor, Dept. of CSE attended “Awareness Programme on ICT and e-Governance -III”, organized by C NIRDPR-NERC, Guwahati, 09 September, 2021.

16. Dr. Achyuth Sarkar, Assistant Professor, Dept. of CSE attended “Second Virtual International Summit of Tech 4 Seva”, organized by Vibha UBA & CIBIOD, WEF, 20-23 October, 2021.

Faculty Awards and Achievements

1. Dr. Shubhajit Das, Assistant Professor, Dept. of ME, NITAP was *Reviewer* of “World Journal of Engineering” Emerald publishing for the month of October 2021.
2. Dr. Shubhajit Das, Assistant Professor, Dept. of ME, NITAP was *Reviewer* of “Materials and Design” Elsevier publishing for the month of October 2021.
3. Dr. Shubhajit Das, Assistant Professor, Dept. of ME, NITAP was *Reviewer* of “ASME Journal of Manufacturing Science and Engineering” ASME for the month of October 2021.
4. Dr. Shubhajit Das, Assistant Professor, Dept. of ME, NITAP was *Reviewer* and is a part of the scientific committee of ‘2nd International Conference on Advances in Material Science 2021’ scheduled to be held from 16th to 17th November 2021 at Ahmednagar, India.
5. Dr. S. N. Deepa, Associate Professor, Dept. of EE was a *Reviewer* of “Expert Systems with Applications”, Elsevier Publications, 19 September 2021.

6. Dr. S. N. Deepa, Associate Professor, Dept. of EE was a *Reviewer* of “International Journal of Systems Science”, Taylor and Francis, 19 September 2021.
7. Dr. S. N. Deepa, Associate Professor, Dept. of EE was a *Reviewer* of “Scientific Reports, Springer Nature”, 05 October 2021.
8. Dr. S. N. Deepa, Associate Professor, Dept. of EE was a *Reviewer* of “Expert Systems with Applications”, Elsevier Publications, 27 October 2021.
9. Dr. S. N. Deepa, Associate Professor, Dept. of EE was a *Reviewer* of “Knowledge Based Systems”, Elsevier Publications, 27 October 2021.
10. Dr. S. N. Deepa, Associate Professor, Dept. of EE was a *Reviewer* of “Network Modeling Analysis in Health Informatics and Bioinformatics (NHIB)”, Springer Publications, 27 October 2021.
11. Dr. Nabakumar Pramanik, Assistant Professor, Dept. of CHE was a *Reviewer* of the Journal named "Polymer Bulletin," Springer Nature Publications.
12. Dr. Sanjeev Kumar Metya, Assistant Professor, Dept. of ECE was a *Reviewer* of 6th IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE-2021).
13. Dr. Sanjeev Kumar Metya, Assistant Professor, Dept. of ECE was a *Reviewer* of 3rd International Sustainability and Resilience Conference: Climate Change. (SRC-21).
14. Dr. Sanjeev Kumar Metya, Assistant Professor, Dept. of ECE was a *Reviewer* of IEEE Indian Conference on Antennas and Propagation (InCAP-2021).
15. Dr. Sanjeev Kumar Metya, Assistant Professor, Dept. of ECE was a *Reviewer* of 5th International Conference on Optical & Wireless Technologies (OWT 2021).
16. Dr. Sanjeev Kumar Metya, Assistant Professor, Dept. of ECE was a *Reviewer* of International Conference on Innovation and Intelligence for Informatics, Computing and Technologies (3ICT 2021).

17. Dr. Sanjeev Kumar Metya, Assistant Professor, Dept. of ECE was a *Reviewer* of International e-Conference on Frontiers in Computer & Electronics Engineering and Nano Technology (ICF-CEET-2021).
18. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, was a *Reviewer* of Journal of Nanomaterials, Nanoengineering and Nanosystems, Publisher: SAGE Publications Ltd, 13 September 2021.
19. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, was a *Reviewer* of Materials Today: Proceedings, Elsevier Ltd. United Kingdom, 13 September 2021.
20. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, was a *Reviewer* of Indian Journal of Physics, Springer Science + Business Media on behalf of the Indian Association for the Cultivation of Science, 21 October 2021.
21. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, was a *Reviewer* of Proceedings of the Institution for Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, Publisher: SAGE Publications Ltd, United Kingdom, 22 October 2021.
22. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, was a *Reviewer* of Boundary Value Problems, Publisher: Springer Open, ISSN / eISSN 16872762, 16872770, 18 September 2021.
23. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, was a *Reviewer* of Scientific Reports, Nature Research, Heidelberger Platz 3, Berlin, Germany, 14197 Publications, 22 October 2021.
24. Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME, was a *Reviewer* of Journal of Ocean Engineering and Science, 31 October 2021, Publisher: Elsevier B.V.
25. Dr. Rajen Pudur, Assistant Professor, Dept. of EE was a *Reviewer* of Asian Journal of Research and Reviews in Physics, September 2021.

26. Dr. Rajen Pudur, Assistant Professor, Dept. of EE was a *Reviewer* of International Journal of Global Warming (IJGW), ISSN: 1758-2091 Scopus, September 2021.
27. Dr. Rajen Pudur, Assistant Professor, Dept. of EE was a *Reviewer* of 2021 International Conference on smart generation computing, communication and networking (SMARTGEN-2021), IEEE Pune section, 29th – 30th Oct 2021, in AISSMS College of Engineering, Pune, Maharashtra, India.
28. Dr. Rajen Pudur, Assistant Professor, Dept. of EE was a *Reviewer* of Chemical Abstracts Service (CAS, American Chemical Society), NAAS score: 4.69, Google Scholar, Qualis (Brazilian index), Microsoft Academic.
29. Dr. Rajen Pudur, Assistant Professor, Dept. of EE was a *Reviewer* of Journal of Global Ecology and Environment, indexed by Google Scholar, (NAAS score: 3.94), CNKI (China), Index Copernicus (ICV: 96.48), EBSCOhost (USA), Chemical Abstracts Service (CAS, American Chemical Society), WorldCat.
30. Dr. Rajen Pudur, Assistant Professor, Dept. of EE was a *Reviewer* of “International Symposium on Sustainable Energy and Technological Advancements (ISSETA 2021), NIT Meghalaya, September 2021.

Outreach Activities

Ek Bharat Shreshtha Bharat (EBSB) Club:

1. Shivani Agarval (CSE/20//20/6), NIT AP won the first prize in the poster competition on the theme “India's Sports Heritage” organized by the Ek Bharat Shreshtha Bharat Club (EBSB) of Ghani Khan Choudhury Institute of Engineering and Technology (GKCIET) Malda in Association with NIT Meghalaya and NIT Arunachal Pradesh on 25th September, 2021.



2. Online Poster Making Competition was organized on 10th September 2021, on the occasion of Swachhta Pakhwada, 2021 by Dr. K. Vijayakumar, coordinator, EBSB Cell, NIT Arunachal Pradesh. The winners of Online Poster Making Competition are:

First Prize	Kumar Arijit Mishra Dav Public School Unit-8, Bhubaneswar, Odisha
Second Prize	Salik Ahmad NIT Meghalaya
Third Prize	B. Dona Kendriya Vidyalaya No.1 Naharlagun

3. Shweta Rai and Kime Chada, The Impact team received the first prize and Ritika Sinha and Ashi Chhabra, Listen up Team received the second prize. Ashi Chhabra and Kime Chada received first and second prizes respectively for the individual speakers' award categories in Inter-Institute Debate Competition, organized by Ek Bharat Shreshtha Bharat Club, NIT Meghalaya in Association with Ghani Khan Choudhury Institute of Engineering and Technology (GKCIET), Malda and NIT Arunachal Pradesh on 30 October, 2021.



Photo: Winners of Debate Competition

Unnat Bharat Abhiyan (UBA):

Faculty Members of NITAP are taking classes at Govt. Secondary School Jote under school adoption program of Unnat Bharat Abhiyan (UBA).



Photo: NITAP Faculty Members at Govt. Secondary School Jote

IIC/Startup Cell NIT Arunachal Pradesh:

1. An Impact Lecture of the Institution's Innovation Council (IIC) on "Startup and Innovation" conducted by Dr. Sahadev Roy, the Coordinator, IIC & Startup Cell NITAP sponsored by MIC Innovation Cell, 27 September 2021. Dr. Sukamal Deb, Dy. Chief

Executive Officer, NEZ, In-charge, Khadi & Village Industries Commission (KVIC), Ministry of MSME, Govt. of India was the Chief Guest. A total of 87 participants attended the special talk.

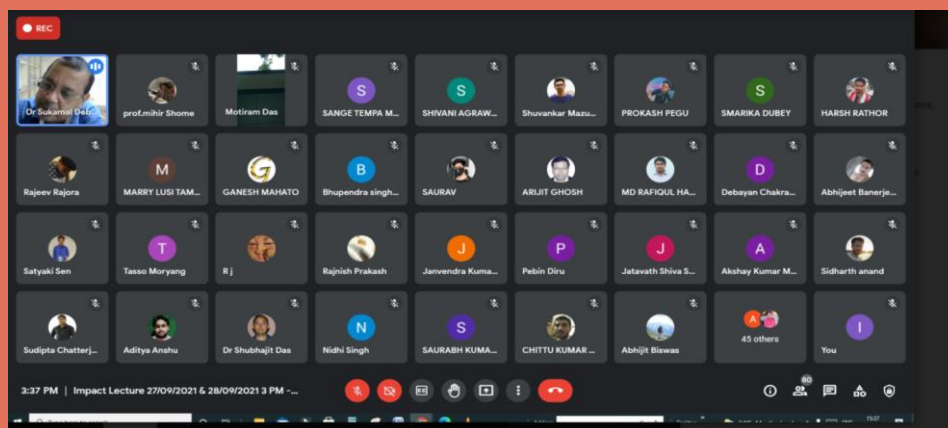


Photo: A Special Talk by Dr. Sukamal Deb

2. An Impact Lecture of the Institution's Innovation Council (IIC) on "Startup and Innovation" conducted by Dr. Sahadev Roy, the Coordinator, IIC & Startup Cell NITAP sponsored by MIC Innovation Cell, 28 September 2021. Prof. Subhasis Bhaumik, Dean, Research & Consultancy, IIC President IIST Shibpur, Faculty & Head, Centre for Industrial Extension and Consultancy was the Chief Guest.

Title of the talk: Innovation, Incubation, Entrepreneurship and Start-Up Activities at Higher Education Institutions.

Number of Participant:56.

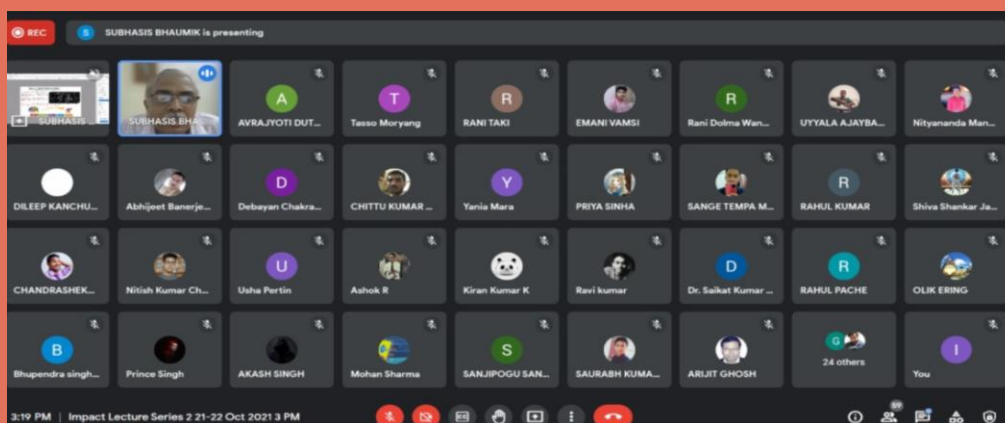


Photo: A Special Talk by Prof. Subhasis Bhaumik

3. An Impact Lecture of the Institution's Innovation Council (IIC) on "Startup and Innovation" conducted by Dr. Sahadev Roy, the Coordinator, IIC & Startup Cell NITAP sponsored by MIC Innovation Cell, 28 September 2021. Dr. Ramesh Mittal, Director, CCS National Institute of Agricultural Marketing (CCS NIAM) was the Chief Guest.



Photo: A Special Talk by Dr. Ramesh Mittal

NCC Cell:

1. Cadet Shantanu Banerjee was awarded 'The Best Cadet' in national level of SNIC (EBSB) Camp, which was organized by Jammu Kashmir and Ladakh Directorate, NCC, 19- 24 April 2021.

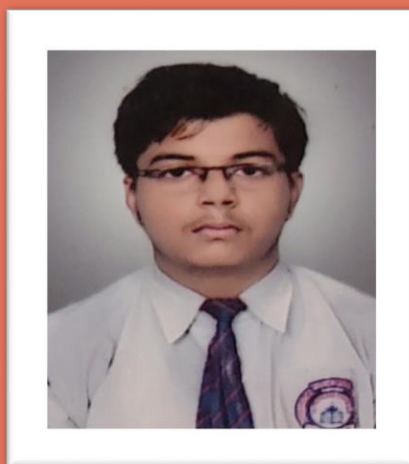


Photo: Cadet Shantanu Banerjee

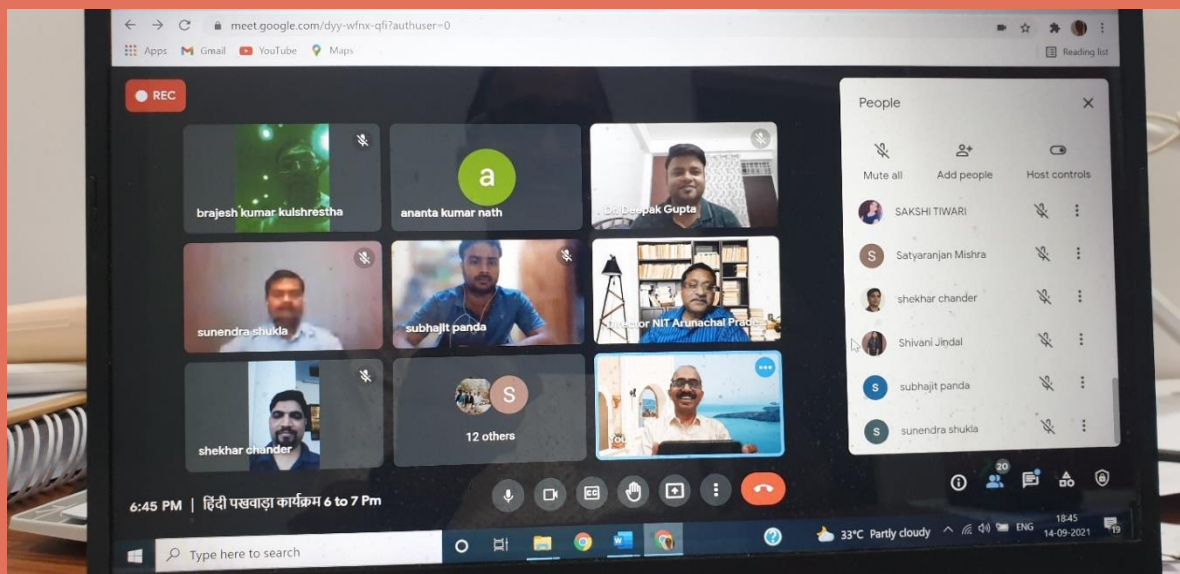
2. NCC-C Certificate Examination for the Training Year 2021 which was held at Itanagar, 19 September 2021.



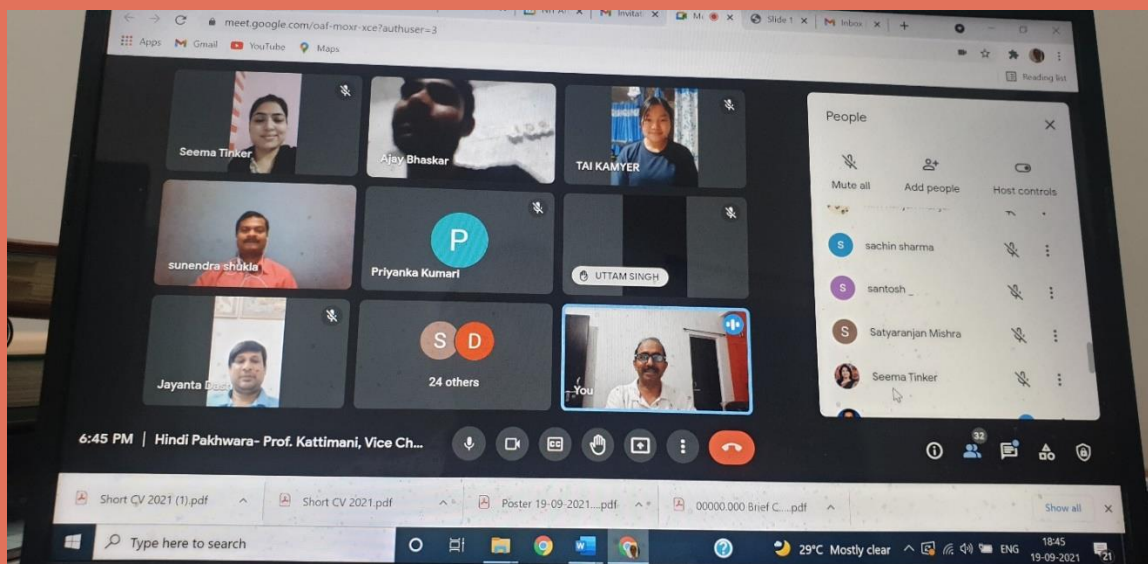
Photo: NCC C Certificate Examination

Hindi Pakhwada:

1. Hindi Pakhwada program was organized by Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME. Speaker: Prof. Ananta Kumar Nath, Former Professor and Head, Department of Hindi, Central University Tezpur (Assam), Time: 6:00 to 7:00 Pm (online mode).



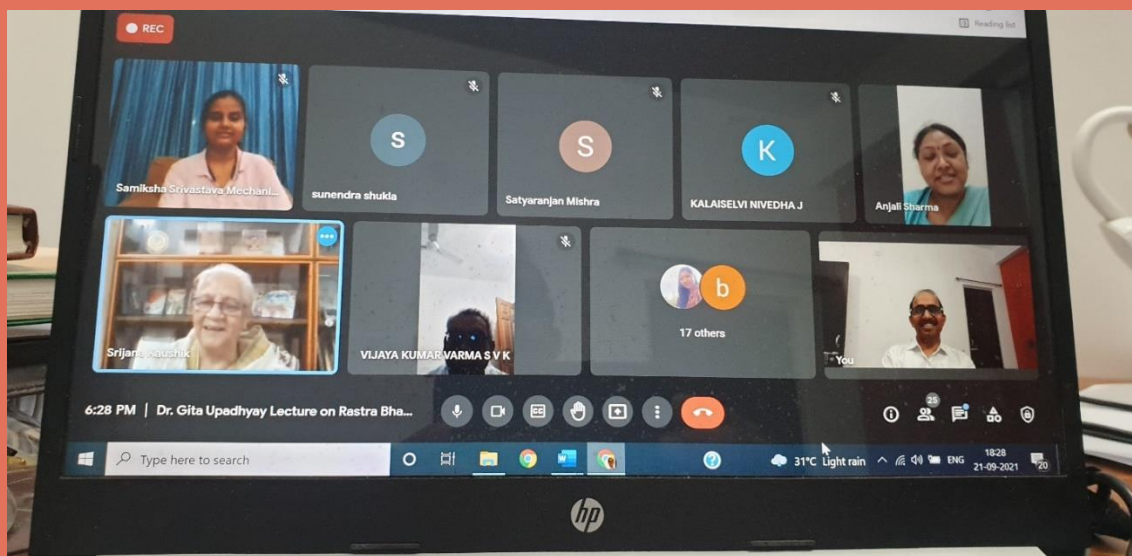
2. Hindi Pakhwada program was organized by Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME. Speaker: Prof. T.V. Kattimani, Vice Chancellor, Central Tribal University Andhra Pradesh, Time: 6:00 to 7:00 Pm (online mode).



3. Hindi Pakhwada program was organized by Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME. Speaker: Prof. Anil Rai, Professor, University of Delhi, Time: 6:00 to 7:00 Pm (online mode).



4. Hindi Pakhwada program was organized by Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME. Speaker: Dr. Geeta Upadhyay, An Eminent Writer, Tezpur (Assam), Time: 6:00 to 7:00 Pm (online mode).|



5. Hindi Pakhwada program was organized by Dr. Ram Prakash Sharma, Associate Professor, Dept. of ME. Speaker: Prof. Rakesh Kumar Singh, Head, Department of Hindi, Satyavati College, University of Delhi Time: 6:00 to 7:00 Pm (online mode).

राष्ट्रीय प्रौद्योगिकी संस्थान, अरुणाचल प्रदेश
सादर आमंत्रण

हिन्दी पखवाड़ा हेतु व्याख्यान आयोजन
विषय: भारत बोध और हिंदी

अध्यक्ष
प्रो. पिनाकेश्वर महांता, निदेशक
राष्ट्रीय प्रौद्योगिकी संस्थान, अरुणाचल प्रदेश

मुख्य अतिथि एवं वक्ता
डॉ. राकेश कुमार सिंह, प्रभारी, हिंदी विभाग,
सत्यवती कॉलेज, दिल्ली विश्वविद्यालय

दिनांक: 23 सितम्बर 2021 समय: सायं 6.00 बजे
गूगल मीट लिंक: <https://meet.google.com/jmi-sytx-fot?authuser=3>

अध्यक्ष
डॉ. राम प्रकाश शर्मा, अधिष्ठाता (छात्र कल्याण)

मुख्य अतिथि एवं वक्ता
डॉ. दीपक गुप्ता, समन्वयक, हिंदी प्रकोष्ठ

राष्ट्रीय प्रौद्योगिकी संस्थान, अरुणाचल प्रदेश
सादर आमंत्रण

हिन्दी पखवाड़ा हेतु व्याख्यान आयोजन
विषय: राष्ट्रीय विकास के लिए हिन्दी:राष्ट्रीय शिक्षा नीति 2020 का सन्दर्भ

अध्यक्ष
प्रो. पिनाकेश्वर महांता, निदेशक
राष्ट्रीय प्रौद्योगिकी संस्थान, अरुणाचल प्रदेश

मुख्य अतिथि एवं वक्ता
प्रो. रजनीश कुमार शुक्ल, कुलपति
महात्मा गांधी अंतरराष्ट्रीय हिंदी विश्वविद्यालय, वरुणा

दिनांक: 26 सितम्बर 2021 समय: सायं 6.00 बजे
गूगल मीट लिंक: <https://meet.google.com/zju-bqcw-ckp?authuser=0>

अध्यक्ष
डॉ. राम प्रकाश शर्मा, अधिष्ठाता (छात्र कल्याण)

मुख्य अतिथि एवं वक्ता
डॉ. दीपक गुप्ता, समन्वयक, हिंदी प्रकोष्ठ



राष्ट्रीय प्रौद्योगिकी संस्थान, अरुणाचल प्रदेश

सादर आमंत्रण

हिन्दी पखवाड़ा हेतु व्याख्यान आयोजन

विषय: राष्ट्रीय शिक्षा नीति एवं हिन्दी



अध्यक्ष

प्रो. पिनाकेश्वर महांता, निदेशक
राष्ट्रीय प्रौद्योगिकी संस्थान, अरुणाचल प्रदेश



मुख्य अतिथि एवं वक्ता

प्रो. श्रीप्रकाश मणि त्रिपाठी, कुलपति
इंदिरा गांधी राष्ट्रीय जनजातीय विश्वविद्यालय, अमरकंटक, मध्यप्रदेश

दिनांक: 27 सितम्बर 2021 समय: सायं 6.00 बजे
गूगल मीट लिंक: <https://meet.google.com/tdc-fuwq-tdg?authuser=3>



डॉ. राम प्रकाश शर्मा, अधिष्ठाता (छात्र कल्याण)



डॉ. दीपक गुप्ता, समन्वयक, हिंदी प्रकोष्ठ



राष्ट्रीय प्रौद्योगिकी संस्थान, अरुणाचल प्रदेश

सादर आमंत्रण

हिन्दी पखवाड़ा हेतु व्याख्यान आयोजन

विषय: नई राष्ट्रीय शिक्षा नीति में मातृभाषा में शिक्षा: भविष्य की संभावनायें



अध्यक्ष

प्रो. पिनाकेश्वर महांता, निदेशक
राष्ट्रीय प्रौद्योगिकी संस्थान, अरुणाचल प्रदेश



मुख्य अतिथि एवं वक्ता

प्रो. नन्द किशोर पाण्डेय, अधिष्ठाता - कला संकाय
तथा शोध निदेशक, राजस्थान विश्वविद्यालय, जयपुर

दिनांक: 29 सितम्बर 2021 समय: सायं 6.00 बजे
गूगल मीट लिंक: <https://meet.google.com/bif-enns-nqc?authuser=3>



डॉ. राम प्रकाश शर्मा, अधिष्ठाता (छात्र कल्याण)



डॉ. दीपक गुप्ता, समन्वयक, हिंदी प्रकोष्ठ

Photo: Hindi Pakhwada

Classes at Govt. Secondary School at Jote:

Dr. Nabakumar Pramanik, Assistant Professor, Dept. of CHE is taking Chemistry for Class-X at Govt. Secondary School at Jote as a part of Extracurricular and Outreach Activities.

Our Alumni

Hello Folks!

I am Anand Kumar Singh, an alumni of 2017-21 batch (B.Tech, Mechanical Engineering) of NIT AP. I have just started my career as a Graduate Engineer Trainee at Hindustan Zinc of Vedanta Resources Limited. Hindustan Zinc is one of the world's largest and India's only integrated Zinc-Lead-Silver producer. I would like to share my job experience as a fresher in mining industry. I have been assigned role of a Maintenance Engineer in Heavy Earth Moving Machinery (HEMM) section of Rajpura Dariba Mines. It was a total new experience for me to work in underground mine. I was surprised! The vast expanse of the mine, the lighting system, the heavy machinery movements, the constant dripping of water, the flow of air these cannot be explained but only experienced once you are down there. It is day to day basis job where at beginning of each day mining engineer plan where to mine etc. To execute all the mining activities, e.g., excavation of land, transporting people & material (to & fro underground), machinery is used where the role of Mechanical Engineer comes in. The role of Mechanical engineer is to ensure general check-up of equipment's, breakdown maintenance, schedule preventive maintenance for all equipment's (e.g., Excavators, Passenger carrier, Low Profile Dumping Truck, Drilling equipment, Explosive carrier, Diesel browser, Water tanker, Miller, Scissor lift, Explosive charging equipment, etc) and ensure the availability of equipment's. Apart from that other work of mechanical engineer is asset management and optimisation, inventory management for different spare parts, along with diesel and various types of hydraulic oil. At last, I would like to say it's a great opportunity for mechanical engineers to learn and explore who see challenges as opportunity and like to overcome them with new ideas and innovations.



Anand Kumar Singh
2017-21 batch
B.Tech, Mechanical Engineering

I

am Dharmraj Chandrakar, an Alumni of NITAP, now working as an AET in PGCIL, a maharatna company. It's been almost a month working here. The ongoing experience is nice. We are having a good exposure and having a good chance to enhance our skill. The theory we learnt from the college (B.Tech) can be implemented practically which is really amazing. The company pays attention to our education & growth. It also provides opportunities to participate in sports - games & cultural activities. Apart from all these, the company gives us a good working atmosphere, job security, best health facilities for one & their dependents and a handsome salary.



Regards
Dharmraj Chandrakar
2017-21 batch
B.Tech, Electrical Engineering

I

am Vivekanand, an Alumni of NITAP, now working as an AET in PGCIL, a Maharatna Company. It's been one month I have joined here. I feel, PGCIL is best platform for me to explore my knowledge and experience. I would like to thank my faculty members and friends who help me a lot to get to this wonderful platform. The experience I am gaining from this company is awesome. The ongoing experience is nice. The theoretical knowledge we got from the college is what I am implementing practically today, which is really amazing. The company pays attention to enhance our knowledge & growth. Apart from all these, the company gives us a good working atmosphere, job security, best health facilities for employees & their dependents. My suggestion to my lovely juniors is that to put your full efforts to get good opportunities.



Regards
Vivekanand
2017-21 batch
B.Tech, Electrical Engineering

Announcement

The 8th Convocation of NIT Arunachal Pradesh is scheduled on 09th December, 2021 for conferring degrees to the students who have passed out in the academic session 2020-21 at Jote (Blended Mode).



ENTREPRENEURSHIP DEVELOPMENT PROGRAMME

NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH
Jote, District Papum Pare, Arunachal Pradesh – 791113

Basic Training on Layer Poultry farming - Phase-II
Date: 15th Nov to 19th Nov, 2021
Last date of receipt of application: 12th Nov 2021
Venue: NIT Arunachal Pradesh, Jote campus
Contact: Dr. Rajen Pudur
Phone Number: 9436634942
Email ID: rajenpudur1977@gmail.com

Design Software for Product Development
Date: 29th Nov to 3rd Dec, 2021
Last date of receipt of application: 20th Nov 2021
Venue: NIT Arunachal Pradesh, Jote campus
Contact: Dr. Shubhajit Das and Dr. Prases Kumar Mohanty
Phone Number: 9435547092/9485236260
Email ID: 06shubhajit@gmail.com, pkmoahanty30@gmail.com

Training on Vermicomposting (Phase II)
Date: 29th Nov to 3rd Dec 2021
Last date of receipt of application: 22nd Nov 2021
Venue: NIT Arunachal Pradesh, Jote Campus
Contact: Dr. Manjula Das Ghatak
Phone Number: 9875310832/9485231718
Email ID: manjula.ghatak@gmail.com

Training on Herbal Tablets, Capsules and Syrup Making – Phase III
Date: 29th Nov to 3rd Dec, 2021
Last date of receipt of application: 22nd Nov 2021
Venue: NIT Arunachal Pradesh, Jote campus
Contact: Dr. Pallabi Kalita Hui
Phone Number: 7099193125/8974498212
Email ID: pallabi2008rgu@gmail.com

Basic training on Domestic wiring/Repair of Electrical Appliances
Date: 19th Nov to 18th Dec 2021
Last date of receipt of application: 15th Nov 2021
Venue: NIT Arunachal Pradesh, Jote campus
Contact: Dr. Rajen Pudur
Phone Number: 9436634942
Email ID: rajenpudur1977@gmail.com

Marketing and Processing (Making) of Pickles and Other Food Products
Date: 22nd Nov to 26th Nov 2021
Last date of receipt of application: 15th Nov 2021
Venue: NIT Arunachal Pradesh, Jote Campus
Contact: Dr. A. K. Atta
Phone Number: 9436288612
Email ID: attaananta@gmail.com

Training on Herbal Tablets, Capsules and Syrup Making – Phase II
Date: 24th Nov to 28th Nov 2021
Last date of receipt of application: 17th Nov 2021
Venue: NIT Arunachal Pradesh, Jote campus
Contact: Dr. Pallabi Kalita Hui
Phone Number: 7099193125/8974498212
Email ID: pallabi2008rgu@gmail.com





Training on Biomass Based Pellets Preparation and Utilization for Energy Production
Date: 1st Dec to 3rd Dec 2021
Last date of receipt of application: 25th Nov 2021
Venue: NIT Arunachal Pradesh, Jote Campus
Contact: Dr. Saikat Jana
Phone Number: 9485230608
Email ID: saikatmicro4@gmail.com

Training on Vermicomposting (Phase III)
Date: 6th Dec to 10th Dec 2021
Last date of receipt of application: 28th Nov 2021
Venue: NIT Arunachal Pradesh, Jote Campus
Contact: Dr. Manjula Das Ghatak
Phone Number: 9875310832/9485231718
Email ID: manjula.ghatak01@gmail.com

Basic Training on Fiber Extraction from Banana Stem
Date: 6th Dec to 18th Dec 2021
Last date of receipt of application: 28th Nov 2021
Venue: NIT Arunachal Pradesh, Jote campus
Contact: Dr. Rajen Pudur
Phone Number: 9436634942
Email ID: rajenpudur1977@gmail.com

For more detail visit :
<https://www.nitap.ac.in>

Greenery of NITAP, Jote





PC: Dr. Shubhajit Das, Assistant Professor, Dept. of ME, NITAP.