

Newsletter of
NIT Arunachal Pradesh (Bi-monthly)

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Editor-in-Chief's Message



Dr. K. Vijayakumar
Editor-in-Chief

I thank my team members and my colleagues of all the departments for their valuable comments to make this current edition more perfect.

I invite all students, alumni, faculty members, officers, supporting staff and various stakeholders associated with NITAP to support us and send us news to technodaya@nitap.ac.in



DIRECTOR's Message

Greetings!

It's a pleasure to welcome you to the current issue of Technodaya, NITAP Newsletter.

Last two months, Dec, 2019- Jan, 2020, many academic, research and outreach activities were convened at NITAP to envision a few milestones of our mission. In academics, three retired professors had joined as Senior Research Advisors to collaborate with academics and research under TEQIP-III programme. I heartily welcome them to NITAP. Other academic activities like Technical Visit to College of Horticulture and Forestry under Central Agricultural University, Pasighat, Invited Lectures by Prof. Uttam Kumar Sarkar, IIM Kolkata and Dr. Sunil D. Pawar & Dr. V. Gopalakrishnan, Scientist F, from IITM, Pune, Online registration in Swayam and NPTEL courses by faculty members, and SDP for staff members were held during this period. Under research & development, more than 29 research papers were published in reputed journals and conferences. And for outreach activities, EBSB Club, Swachh Bharat Toli, Paryavaran Sanrakshan Toli, Nasha Mukt Abhiyan Ke Liye Kaam Karne Wali Toli, Bijli Sanrakshan Toli, Fitness Club, Photography Club & Jal Sanrakshan Toli were inaugurated. Swachhta Pakhwada 2020 was observed from 16th to 31st Jan. 2020 at NITAP. Online Slogan Writing, Cleanliness Drives, and Special Talks were organized to observe the Pakhwada.

With the note, I seek the whole-hearted cooperation of all NITAPians in achieving institute's vision and mission.

With Best Wishes

Prof. Pinakeswar Mahanta
Director, NIT Arunachal Pradesh.



Academic Activities

Director's Conclave:

Prof. Pinakeswar Mahanta, Director, NITAP attended Director's Conclave on NITs in North East with Special Reference to Incubation and Entrepreneurship at NIT Agartala, 14th Jan, 2020.



Photo: Director's Conclave at NIT Agartala

New Research Advisors



Prof. Nripendra Nath Patwari
Senior Research Adviser
Dept. of CE, NITAP



Prof. D. Mary
Senior Research Adviser
Dept. of EE, NITAP



Prof. Chhotan Sahu
Senior Research Adviser
Dept. of EE, NITAP

Technical Visit:

Prof. D. Mary, Retd. Professor in EE, Govt. College of Technology, Coimbatore, Tamilnadu, Dr. M. Berlin, Asst. Professor, Dept. of CE and Dr. K. Vijayakumar, Asst. Professor, Dept. of M&H, NITAP visited Water Harvesting Tank Instructional Farm, College of Horticulture and Forestry, Central Agricultural University, Pasighat, Arunachal Pradesh.



Photo: Technical Visit at Water Harvesting Tank Instructional Farm

Invited/ Expert Lectures:

1. Prof. Uttam Kumar Sarkar, IIM Kolkata delivered special lecture on, 'Importance of Network Analytics and Externalities for Startups' on 17th Jan, 2020 for B.Tech students organized by Dr. M.M. Singh and Dr. K. Vijayakumar, Asst. Prof, Dept of M&H, NITAP.



Photo: Prof. Uttam Kumar Sarkar, IIM Kolkata

2. Dr. Sunil D. Pawar & Dr. V. Gopalakrishnan, Scientist F, Indian Institute of Tropical Meteorology (IITM), Pune, delivered expert lectures on 'Atmospheric Electricity and Thunderstorms' on 27th Jan 2020, organised by Dr. Susanta Maity, Asst. Professor, Dept. of BAS, NITAP.



Photo: Dr. Sunil D. Pawar & Dr. V Gopalakrishnan, (IITM), Pune

3. Prof. N. Sukumar, Dept. of Political Science, University of Delhi delivered special lecture on, 'Connecting Science and Society' on 31st Jan, 2020 for B.Tech students organized by Dr. M.M. Singh and Dr. K. Vijayakumar, Asst. Prof, Dept of M&H, NITAP.



Photo: Prof. N. Sukumar, University of Delhi

Best Paper Award:

Sreedhar P. V. S. S, Vishnu Nair, Pankaj Biswas, Pinakeswar Mahanta, Dept of ME was awarded the Best Paper Award on 'Thermomechanical analysis of Single Sided single pass Submerged arc welding of AISI 304 Austenitic Stainless Steel' in 2nd International Conference on Computational Methods in Manufacturing (ICMM) 2019 by Springer held at IIT, Guwahati, 2019.

Paper Publications/Presentations:

1. Parashjyoti Borah & Dr. Deepak Gupta published a research paper titled 'Unconstrained convex minimization based implicit Lagrangian twin extreme learning machine for classification (ULTELMC)'. Applied Intelligence (SCI, IF: 2.882). (Accepted).
2. Dr. Deepak Gupta, Mr. Barenya Bikash Hazarika & Dr. M. Berlin published a research paper titled 'Robust regularized extreme learning machine with asymmetric Huber loss function'. Neural Computing and Applications (SCI, IF: 4.664). (Accepted).
3. Mr. Bikram Kumar, Dr. Deepak Gupta & Dr. Rajat Subhra Goswami presented a research paper titled "Classification of Students confusion level in e-learning using Machine Learning" in ICDECS-2019, Bangalore. 19th -20th Dec, 2019.
4. Mr. Debjyoti Das Adhikary & Dr. Deepak Gupta presented a research paper titled "Ensemble learning models for Churn Prediction" in ICDECS-2019, Bangalore. 19th -20th Dec, 2019.
5. Mr. Debjyoti Das Adhikary (MTech CSE) published a research paper titled "Ensemble learning models for Churn Prediction" in Elsevier-Scopus indexed International Journal of Innovative Technology and Exploring Engineering (IJITEE).
6. Mr. Bikram kumar (MTech CSE) published a research paper titled "Classification of Students confusion level in e-learning using Machine Learning" in Elsevier-Scopus indexed International Journal of Innovative Technology and Exploring Engineering (IJITEE).
7. Dr. R. P. Sharma, S. R. Mishra, published a research paper titled Effect of higher order chemical reaction magnetohydrodynamic micropolar fluid motion with internal heat source, International Journal of Fluid Mechanics Research, DOI: 10.1615/Inter. J. Fluid Mech. Res. 2019027201
8. Dr. R. P. Sharma, A.K. Jha, P.K. Gaur, S.R. Mishra, published a research paper titled Nanofluid motion past a shrinking sheet in porous media under the impact of radiation and heat source/

sink, Int. J. of Applied Mechanics and Engineering, 2019, vol.24, No.4, pp.183-199, <https://doi.org/10.2478/ijame-2019-0057>

9. Dr. R. P. Sharma and S R Mishra, published a research paper titled Combined effects of free convection and chemical reaction with heat-mass flux conditions: A semi-analytical technique, Pramana - J Phys (2019) 93: 99. <https://doi.org/10.1007/s12043-019-1842-z>. I.F. (2016) 0.699, H Index 40. UGC Journal Number: 38326, Publisher: Indian Academy of Sciences. ISSN: 0304-4289 (print).
10. Dr. R. P. Sharma participated and presented a paper entitled "Heat source and chemical reaction effect on Molybdenum disulfide (MoS₂)-engine oil (EO) based MHD nanofluid flow in a moving plate" in the 2nd International Conference on Numerical Heat Transfer & Fluid Flow (NHTFF-2020) during 17th-19th Jan, 2020 (In the memory of Late Prof. T. K. V. Iyengar on the eve of his birth anniversary) organized by the Department of Mathematics, National Institute of Technology, Warangal.
11. Dr. R. P. Sharma participated and chaired the session in the 2nd International Conference on Numerical Heat Transfer & Fluid Flow (NHTFF-2020) during 17th-19th Jan, 2020 (In the memory of Late Prof. T. K. V. Iyengar on the eve of his birth anniversary) organized by the Department of Mathematics, National Institute of Technology, Warangal.
12. Dr. R. P. Sharma participated and presented a paper entitled "Squeezing flow analysis of Cu-water and Cu-kerosene nanofluids with dissipative energy" in the National Conference on Recent Advancement in Physical Sciences organized by Department of Chemistry, Physics & Mathematics, NIT Uttarakhand during 19th-20th Dec, 2019 at Satellite Campus-MNIT Jaipur
13. Dr. R. P. Sharma participated and presented a paper entitled "Heat and mass transfer effect of MHD rotating fluid past a vertical surface with variable thermal conductivity under the Influence of chemical reaction and thermal radiation effect" in the 64th Congress (an International Conference) of Indian Society of Theoretical and Applied Mechanics (ISTAM-2019) during 9th-12th Dec, 2019 organized by School of Mechanical Sciences and School of Basic Sciences (Mathematics), Indian Institute of Technology, Bhubaneswar.
14. S. Ghosh, S. Ghosh, S. K. Jana, N. Pramanik, published a research paper titled 'Biomedical application of doxorubicin coated hydroxyapatite - poly (lactide-co-glycolide) nanocomposite for controlling osteosarcoma therapeutics', Journal of Nanoscience and Nanotechnology, Vol. 20, 3994-4004, 2020.
15. S. Sikder, S. K. Metya, R. S. Goswami, published a research paper titled 'Exception Included, Ordered Rule Induction from the Set of Exemplars (ExIQRISE)', International Journal of Innovative Technology and Exploring Engineering, Vol. 9, No. 25, 57-62, 2019.
16. S. Sikder, S. K. Metya, R. S. Goswami, published a research paper titled 'Exception-Tolerant Decision Tree / Rule Based Classifiers', Ingénierie des Systèmes d'Information, Vol. 24, No. 5, 553-558, 2019.
17. A. Tarafdar, U.K. Bera, B.K. Bhattacharyya, A Majumder, published a research paper titled 'Mathematical Understanding of a Data Reconstruction Methodology in Point-to-point Interconnect', IEEE VLSI Circuit & System Letter, Vol. 6 No. 1, 2020.
18. Priyaranjan Biswal & Dr. Prases Kumar Mohanty presented a paper titled, 'Kinematic and Dynamic Modeling of a Quadruped Robot' in 4th International and 19th National Conference on

Machines and Mechanisms (iNaCoMM 2019), 5th -7th Dec, 2019, IIT Mandi.

19. Abhijit Paul, Anup Paul, published a research paper titled 'Thermomechanical Analysis of a Triple Layered Skin Structure in Presence of Nanoparticles Embedding Multi-level Blood Vessels', International Journal of Heat and Mass Transfer, 148, 2020, 119076.
20. Naresh K Sharma & M Berlin presented a paper titled, 'Phenol transport and biodegradation model in an unsaturated porous media from wastewater discharge', in International Conference on Sustainable Development, 18th to 20th Dec, 2019, Kalasalingam Academy of Research and Education, Tamil Nadu, India.
21. Berlin M, Barenya Bikash Hazarika, & Deepak Gupta presented a paper titled, 'Prediction of suspended sediment load in river using computational machine learning techniques', at Indo-Swedish Research Workshop on Impacts of El-Nino Southern Oscillation on the Water-Energy-food Nexus, 9th-11th Jan, 2020, IIT Roorkee, India.
22. L. Jino & A. Vanav Kumar presented a paper titled, 'Heat and fluid flow characteristics of natural convection with magnetic field effects in a porous cavity' at International Conference on Numerical Heat Transfer and Fluid Flow (NHTFF-2020), 17th -19th Jan, 2020, NIT, Warangal.
23. A. Vanav Kumar & R. Balamurugan, presented a paper titled, 'Flow patterns due to sudden introduction of Casson fluid in a steady flow', at International Conference on Numerical Heat Transfer and Fluid Flow (NHTFF-2020), 17th-19th Jan, 2020, NIT, Warangal.
24. Kakoli Roy & Shubhajit Das, Dept. of ME presented a paper titled, 'A review on composite coatings: Techniques, materials, properties and applications in surface engineering' at International Conference on Industrial Tribology (IndiaTrib-2019) at Indian Institute of Science, Bangalore. 1st - 4th Dec, 2019.
25. T. Nampi & Shubhajit Das, Dept. of ME presented a paper titled, "Effect of tribological parameters on wear rate of AA7075/SiC Metal Matrix Composites using Fuzzy Logic: A case study" at International Conference on Industrial Tribology (IndiaTrib-2019) at Indian Institute of Science, Bangalore. 1st- 4th Dec, 2019.
26. T. Nampi, Shubhajit Das, published a research paper titled "Optimization of tribological parameters of AA7075/SiC metal matrix composites", 10th International Conference on Materials Processing and Characterization (ICMPC 2020), 21st-23rd February, 2020, GLA University, Mathura, India [Accepted for Oral presentation].
27. Ashish Kumar Singh, Kakoli Roy, Shubhajit Das, Sangeeta Das, published a research paper titled "WEDM investigation and fuzzy logic modelling of AA7075/SiC metal matrix composites", 10th International Conference on Materials Processing and Characterization (ICMPC 2020), 21st-23rd February, 2020, GLA University, Mathura, India [Accepted for Oral presentation].
28. Shubhajit Das, Sangeeta Das, Kakoli Roy, published a research paper titled "Modelling and turning investigations of Al2024 based metal matrix composites", 10th International Conference on Materials Processing and Characterization (ICMPC 2020), 21st-23rd February, 2020, GLA University, Mathura, India [Accepted for Oral presentation].
29. Shubhajit Das, M. Chandrasekaran, S. Samanta, published a research paper titled "Study on mechanical properties of AA6061/SiC/B4C hybrid nano metal matrix composites", International Conference on Advances in Material Science and Mechanical Engineering (ICAMSME 2020), 7th to 9th Feb. 2020, NBKRIST, Andhra Pradesh, India [Accepted for Oral presentation].

Book/Chapter Publication:

1. Pritam Bhattacharjee, Prerna Rana and Dr. Alak Majumder 'Understanding of On-Chip Power Supply Noise: Suppression Methodologies and Challenges' in Recent Trends in Communication Networks (ISBN → Print: 978-1-83880-506-7; Online: 978-1-83880-507-4). IntechOpen, London, United Kingdom. DOI: 10.5772/intechopen.90378. Dec, 2019. Online Link: <https://www.intechopen.com/online-first/understanding-of-on-chip-power-supply-noise-suppression-methodologies-and-challenges>
2. Shubhajit Das, Kakoli Roy, T. Nampi, 'Manufacturing, Control and Automation', Prasanta Sahoo, Handbook of Research on Developments and Trends in Industrial and Materials Engineering, IGI Global, 123-144, ISSN: 2327-5448, EISSN: 2327-5456, ISBN13: 9781799818311, 2020.
3. Shubhajit Das, Kakoli Roy, T. Nampi, 'Total Quality Management and Quality Engineering', Prasanta Sahoo, Handbook of Research on Developments and Trends in Industrial and Materials Engineering, IGI Global, 451-468, ISSN: 2327-5448, EISSN: 2327-5456, ISBN13: 9781799818311, 2020.
4. Hirakh Jyoti Das, Pinakeswar Mahanta, Rituraj Saikia, 'A Future Trend on Research Scope of Numerical Simulation on Conical Fluidized Bed' in Handbook of Research on Developments and Trends in Industrial and Materials Engineering, DOI: 10.4018/978-1-7998-1831-1.ch017. 2020.
5. Plabon Tamuly, Pinakeswar Mahanta, 'A Study on the Drying of Large/ Black Cardamom in Conventional Bhatti Dryer and the Related Constraints Faced in Arunachal Pradesh' in Post Harvest Technologies and Value Addition, ISBN NO-978-93-5396-087-2, Volume-1, Issue-1. 2019.

Workshops/FDP/Conferences/Seminars:

1. Staff Development Programme on Advanced Computer Skill, (Sponsored by TEQIP-III) was organized by SC/ST/OBC Cell & EQUITY Unit at Network Laboratory, NITAP from 06th to 10th Jan, 2020.



Photo: Staff Development Programme

Research and Development

Sponsored Projects/Schemes/Centres:

'Integration of Variable Frequency Clock & Gated Clock Tree to Mitigate PSN in Multi-core CPU' sponsored by SERB Core Research Grant, Govt. of India, Chief Investigator: Dr. Alak Majumder, Assistant Professor, Dept. of ECE, NITAP.

Patent:

Dr. Achyuth Sarkar, et. al, Dept. of CSE filed for a patent entitled, 'Security and computational time complexity analysis of RSA with novel approach of variability concept of key', Dec, 2019.

Presentation for Projects:

01. Dr. Anup Paul, Dept. of ME presented a project proposal entitled "Hybrid renewable energy sustainable systems for drying of agricultural products" at NECTAR, New Delhi. 08th Jan, 2020.

02. Dr. Deepak Gupta, Dept. of CSE presented a project proposal titled "Prediction of Flood in Pare

river, Arunachal Pradesh using Advanced Machine Learning Techniques" at NECTAR, New Delhi. 08th Jan, 2020.

03. Dr. Achyuth Sarkar, et. al, Dept. of CSE submitted a project proposal entitled, "Mapping, Monitoring and Conservation of Aconitum heterophyllum, Coptis Teeta and Nardostachys Jatamansi critically endangered medicinal plants of Arunachal Pradesh using Image Recognition Pattern" at National Medicinal Plant Board (NMPB), Govt. of India, Ministry of Ayush. Dec, 2019.

Support for Institute

TEQIP-III

Twinning Activity:

Productivity Enhancement Program was organized by Government College of Technology, Coimbatore under TEQIP-III Twinning Activity with NITAP and Govt Engineering College, Jagdalpur. 27th Jan – 01st Feb, 2020.

Faculty Empowerment Programmes:

1. Dr. Nabakumar Pramanik, Dept. of BAS has enrolled for a course, 'Basics in Inorganic Chemistry' in NPTEL (SWAYAM) on 20th Dec, 2019.
2. Dr. Abhik Banerjee, Dept. of EE attended one week STTP on 'Power Generation from Energy Resources' funded by TEQIP-III at NITTR, Kolkata. 16th - 20th Dec, 2019.
3. Dr. Mainak Mallik, Dept. of CE attended a Conference on 'STTP on NBA Accreditation and SAR Preparation', funded by TEQIP-III at NITTR Kolkata. 30th Dec, - 3rd Jan, 2020.
4. Dr. Mainak Mallik, Dept. of CE attended a STC on 'Introduction to Structural Analysis and Design Software for Buildings – ETABS' at NITTR Kolkata. 16th-20th Dec, 2019.
5. Dr. Preetisudha Meher, Dept. of ECE attended a Conference on 'IEEE & ISES-2019', funded by TEQIP-III at NIT Rourkela, Orissa, 16th -18th Dec, 2019.
6. Dr. Shubhajit Das, Dept. of ME & Dr. Brajagopal Datta, Dept. of EE attended a workshop on NBA & NAAC, funded by TEQIP-III at DIU, Goa. 27th - 31st Jan, 2020.
7. Dr. Koj Sambyo, Dept. of CSE attended a conference on 'Big Data Machine Learning & Application' funded by TEQIP-III at NIT Silchar, Assam. 16th - 19th Dec, 2019.
8. Dr. Deepak Gupta, Dept. of CSE attended 'FDP on Data Science' funded by TEQIP-III at CUST, Kerala. 27th to 31st Jan, 2020.
9. Dr. Manjula Das Ghatak, Dept. of ME attended training on 'BMW Skill Next' funded by TEQIP-III at OSL Prestige, Kolkata. 18th Dec, 2019.
10. Dr. Ram Prakash Sharma, Dept. of BAS attended a conference on '64th Congress of the Indian society of theoretical and applied mathematics' funded by TEQIP-III at IIT Bhubaneswar, 9th -12th Dec, 2019.
11. Dr. A. Vanav Kumar, Dept. of BAS attended a Conference on 'Numerical heat transfer and fluid flow' funded by TEQIP-III at NIT Warangal. 11th Dec, 2019.
12. Dr. Deepak Gupta, Dept. of CSE attended a Conference on 'International Hindi Samelan' funded by TEQIP-III at Delhi University, 10th - 11th Jan, 2020.
13. Dr. M.K. Shome, Dept. of M&H attended FDP 'Program on Statistics for business Research and SPSS Applications' funded by TEQIP-III at NIT Warangal. 20th - 25th Jan, 2020.
14. Dr. Ram Prakash Sharma, Dept. of BAS attended a Conference on 'Numerical Heat Transfer and Fluid Flow (NHTFF)' funded by TEQIP-III at NIT Warangal. 17th - 19th Jan, 2020.
15. Dr. Anup Paul, Dept. of ME Attended project review meeting of SERB funded project entitled "Numerical and Experimental investigation of

effect of thermally significant blood vessels during laser assisted thermal therapy” at IIT Madras. 20th Dec, 2019.

16. Dr. Deepak Gupta participated in workshop on ‘Social Media Management and Practices’ at Vigyan Bhawan, New Delhi. 27th Dec, 2019.
17. Dr. Pallabi Kalita Hui attended the Technical Advisory Evaluation Committee and Project Advisory Committee for NECTAR, DST India at IIT Delhi. 08th Jan, 2020.
18. Dr. Pratap Kumar Swain, Dept. of BAS attended 9 days collaboration work at IIT Patna, Bihar. 19th – 27th Dec 2019.

Faculty Awards and Achievement

1. Prof. Pinakeshwar Mahanta, Director, NITAP is a member of the Board of Advisors for Pranab Mukherjee, Chair for Sustainable Development, Research, Skill Advancement and Education of ICFAI University, Sikkim and Madan Bhandari Chair for Research & Development, Sikkim from Dec, 2019 to Sep, 2023.
2. Prof. Pinakeshwar Mahanta, Director, NITAP, is one of the International Advisory Committee members in the international conference on “Recent Advancement of Mechanical Engineering, 07-09 Feb. 2020, National Institute of Technology, Dept of ME, Silchar.
3. Dr. Sanjeev Kumar Metya, Asst. Professor, Dept. of ECE is now a Fellow Member of the Optical Society of India (L.1002).
4. Dr. Alak Majumder, Dept. of ECE has been appointed as Bentham Ambassador by Bentham Science Publishers for the year 2019-2020.
5. Dr. Sanjeev Kumar Metya Asst. Professor, Dept. of ECE was a Reviewer of Optical Engineering, SPIE for the year 2019.
6. Dr. Sahadev Roy, Asst. Professor of ECE. NITAP was recognized as one of the successful alumni for the active support in school development at Platinum Jubilee celebration, Ramnagar Sahora Union High School (HS), Murshidabad, West Bengal. 19th Jan. 2020.



Photo: Dr. Sahadev Roy receiving the award

7. Dr. Mainak Mallik, Dept. of CE has successfully completed four SWYAM -NPTEL courses namely Vibration and Structural Dynamic, Structural Dynamics for Civil Engineers – SDOF Systems and he is Topper in the subjects: Design of Reinforced Concrete Structures and Reinforced Concrete Road Bridges.
8. Dr. Mihir Kumar Shome, Professor, Dept. of M&H, is a reviewer of the journal, ‘Human Systems Management’.
9. Dr. Mihir Kumar Shome, Professor, Dept. of M&H, is a reviewer of the journal, ‘Gender in Management: an International Journal’.
10. Dr. Mihir Kumar Shome, Professor, Dept. of M&H, is a reviewer in the International Conference on Business Management (ICBM 2020), Tripura University.
11. Dr. Mihir Kumar Shome, Professor, Dept. of M&H, is a reviewer of the journal, ‘Emerald Insight’.
12. Dr. Preetisudha Meher, Asst. Professor, Dept of ECE received an award “Most Distinguished Professor of Electronics in Arunachal Pradesh” at “Pride of Indian Education Awards 2020”, New Delhi. 19th Jan, 2020

Online NPTEL and SWAYAM:

The faculty members of NITAP have registered for various online courses in the NPTEL and SWAYAM to enrich their knowledge.

S.No	Name of Faculty	Branch	Date of Registration in the portal	Course Name
1	Dr. Abhik Banerjee	EE	29-04-2019	Power System Engineering
2	Dr. U. K. Saha	BAS	19-12-2019	Integral & Vector Calculus
3	Dr. Sahadev Roy	ECE	20/12/2019	Analog Circuits
4	Dr. Berlin M	CE	20/12/2019	Hydraulic Engineering
5	Dr. A. Vanav Kumar	BAS	20/12/2019	Bioinformatics
6	Dr Sandip Kumar Mandal	ME	20/12/2019	CFD for Incompressible flow
7	Dr. K. R. Singh	BAS	20/12/2019	Basic Linear Algebra, Graph Theory
8	Dr. Jumrick Taipodia	CE	20/12/2019	Geotechnical Engineering II Foundation Engineering
9	Dr. Nabam Rich	CE	20/12/2019	Applied Environmental Microbiology
				Environmental Geomechanics
				Environmental Remediation of Contaminated Sites
				Plastic Waste Management
10	Dr. M. K. Shome	Management and Humanities	20/12/2019	Entrepreneurship
				Principles of Human Resource Management
11	Dr. Abir J Mondal	ECE	19/12/2019	CMOS Digital VLSI Design
				Digital IC Design
				Analog IC Design
				Analog Circuit
12	Dr. Shubhajit Das	ME	19.12.2019	Computer Integrated Manufacturing
				Industrial Automation and Control
13	Dr. Rajen Pudur	EE	20.12.2019	Designing Learner-Centric MOOCs
14	Dr. Nabankumar Pramanik	BAS (Chemistry)	20-12-2019	Basics in Inorganic Chemistry
15	Dr. Dipak Sen	ME	20.12.2019	Two Phase Flow and Heat Transfer
				Conduction and Convection Heat Transfer
16	Dr. Yang Saring	ECE	06-01-2020	Deep Learning Introduction to Machine Learning
17	Dr. R. P. Sharma	Mathematics	06-01-2020	Computational Fluid Dynamics
18	Dr. P. K. Mohanty	ME	06-01-2020	Robotics and Control: Theory and Practice
19	Dr. M. M. Singh	Management and Humanities	06-01-2020	Design Thinking a Primer
20	DR. P. K. Swain	Physics	06-01-2020	Group Theory Methods in Physics
21	Dr. S. Mukhophadhayay	ECE	06-01-2020	Fundamentals of Semiconductor Devices
22	Dr. Debjit Datta	BAS	08-01-2020	Basic Linear Algebra
23	Dr. Yaka Bulo	ECE	08-01-2020	Fundamentals of MIMO Wireless Communication
24	Dr. Alok Majumder	ECE	08-01-2020	Power Management Integrated Circuits
25	Dr. Sanjeev K Metya	ECE	19-12-2019	Introduction to Photonics
26	Dr. Ralli Sango	EE	08-01-2020	Power System Engineering
				Network Analysis
				Advanced Engineering Mathematics
27	Dr. Deepak Gupta	ECE	08-01-2020	Python for Data Science
28	Dr. Mainak Mallik	CE	08-01-2020	Maintenance and repair of concrete structures
29	Dr. Manash Pratim Datta	CSE	09-01-2020	Database Management System
30	Dr. S. K. Chakraborty	CSE	09-01-2020	Cloud Computing and Distributed Systems
31	Dr. Manjula Ghatak	ME	09-01-2020	Power Plant Engineering
				IC Engines and Gas Turbines"
32	Dr. Braja Gopal Datta	EE	09-01-2020	Control Engineering
33	Dr. S. Banerjee	CSE	09-01-2020	Data Analytics with Python
34	Dr. Preetisudha Meher	ECE	09-01-2020	Digital IC Design
35	Dr. Saikat Jana	BIOTECH	09-01-2020	Immunology
36	Dr. Susanta Maity	BAS	09-01-2020	Numerical Linear Algebra
37	Dr. T. D. Das	BAS	09-01-2020	Design, Technology and Innovation
38	Dr. Koj Sambyo	CSE	09-01-2020	Deep Learning
39	Dr. Biri Arun	CSE	09-01-2020	Data Analytics with Python
				Database Management System
40	Dr. A. K. Atta	BAS	09-01-2020	Basics in Inorganic Chemistry
41	Dr. Shantanu Chatterjee	EE	09-01-2020	Advance power electronics and Control
42	Dr. Rajib Jana	EE	09-01-2020	Antenna
43	Dr. Rajat Gowsami	CSE	09-01-2020	Data Analytics with Python
44	Dr. Shakti Prasad	BAS	09-01-2020	Statistical Inference
45	Dr. Anup Paul	ME	11-01-2020	Convective Heat Transfer
46	Dr. K. Vijayakumar	Management and Humanities	06-01-2020	Speaking Effectively



Photo: Dr. Preetisudha Meher receiving the award

Training and Placement

- The details of placement for Dec, 2019 and Jan, 2020:

Sl. No.	Name of the Company	Number of Students Placed	Departments					Package Offered (in Lakhs)
			BT	CE	ECE	EE	ME	
1.	L&T Construction	02	--	--	--	01	01	06
2.	Research Inn	09	01	01	04	01	02	3.8
3.	Vedanta Ltd	05	--	--	--	05	--	5.5

Institute Industry Interaction Cell (IIIC)

Dr. Sahadev Roy, Asst. Professor (ECE) and Coordinator of IIIC reported that 93 students participated in winter training/internship funded by TEQIP III in 29 different reputed organizations like Central Tool Room & Training Center, Bhubaneswar, Central Tool Room & Training Center, Kolkata, Central Tool Room & Training Center, Patna, CSDT IT Solution, EME Technologies, GIS Training Academy Pvt. Ltd., IIT Kharagpur, Indian Institute of Engineering Science and Technology, MSME Tool Room, Jharkhand, Govt. Tool Room Ranchi, Kali Sindh Thermal Power Project, Jhalawar, National Highway Authority of India, NSIC Technical Services Centre, Office of Panchayat Samiti Dausa, Oil and Natural Gas Corporation Ltd, Oil India Limited, Narangi, Oil India Ltd, Narangi, ONGC Mumbai, Purvanchal Vidyut Vitaran Nigam, Rosa Power Supply, Sobus Insight Forum, Uttar Pradesh Power, Corporation Ltd, Zeetron Networks Pvt, Ltd, North Eastern Railway, NTPC successfully.

Student Activities

Student Achievement:

- Mr. Manikant Kumar (CSE/18/23), B. Tech student, Dept. of CSE has completed Certificate Courses on 'How Google does Machine Learning' from Coursera with 98.8%, 'Machine Learning' from Stanford Online and 'Python Bootcamp: Go from zero to here in Python' Dec, 2019.
- Mr. Debanjan Sarkar, Research Scholar, Dept. of ECE presented his Ph.D Synopsis entitled, 'Design and analysis of optical minimum shift keying based next generation optical networks for last mile users', 10th Jan, 2020.
- Ms. Usha Mary Sharma completed NPTEL Online Certification Course on "Introduction to Machine Learning-IITKGP (8 Week Course)" with Elite Grade Jul-Dec, 2019.
- Mr. Umesh Gupta completed NPTEL Online Certification Course on "Introduction to Machine Learning-IITKGP (8 Week Course)", Jul-Dec, 2019.
- Miss Kakoli Roy (PG Scholar), Dept. of ME, published poetry titled Where is Peace?. Publishers: Delhi Poetry Slam, 23rd Jan, 2020.
[Link: https://delhipoetryslam.com/blogs/magazine/where-is-peace](https://delhipoetryslam.com/blogs/magazine/where-is-peace)

State Level Innovation Festival 2020:

Katit Modi (ME/17/02), B.Tech student from Dept. of ME, NITAP was selected by State Govt. of Arunachal Pradesh to participate at national level competition. He presented his inventive ideas at State Level Innovation Festival 2020 held at Arunachal Pradesh Science Centre from 25th - 26th Jan, 2020 organized by Arunachal Pradesh

State Council for Science & Technology, Dept. of Science & Technology, Govt. of Arunachal Pradesh in collaboration with National Innovation Foundation.



Photo: Katit Modi at Innovation Festival 2020

Student Participation:

- Sudipta Chatterjee, PhD Scholar, Dept. of ME attended AICTE Training and Learning (ATAL) Academy program on Robotics funded by TEQIP III at NIT Durgapur. 09th - 13th Dec, 2019.
- Ajay Yadav, M.Tech Scholar, Dept. of ME attended AICTE Training and Learning (ATAL) Academy program on Robotics funded by TEQIP III at NIT Jamshedpur. 23rd - 27th Dec, 2019.
- Swatantra Pal, Dept. of ECE attended 'Winter Training' funded by TEQIP-III at IIT Kanpur. 9th -24th Dec, 2019.
- Manish Kumar, Dept. of CE attended training on 'STADD PRO' funded by TEQIP-III at MSME Tool Room Ranchi, Jharkhand. 1st - 31st Dec, 2019.
- Mainak Mukharjee, Dept. of EE attended a conference on 'Recent Development in smart grid technology' funded by TEQIP-III at IIT Bhubaneswar. 23rd -24th Jan, 2020.
- Suraj Kumar Saw, Dept. of ECE attended a conference on 'Smart Electronic Systems' funded by TEQIP-III at NIT Rourkela, Orissa, 16th - 18th Dec, 2019.
- Kakoli Roy & Tage Nampi, Dept. of ME attended a conference on 'India Trib-2019' funded by TEQIP-III at Indian Institute of Science (IISc), Bangalore. 1st - 4th Dec, 2019.
- Sayan Sikder, Das Adhikary Debjyoti Tushar, Bikram Kumar, Dept. of CSE attended a conference on 'Data Engineering and Communication System' funded by TEQIP-III at RNS Institute of Technology, Karnataka. 19th -20th Dec, 2019.
- Gokul R, Dept. of EE attended a workshop on 'Power electronics and machine lab workshop' funded by TEQIP-III at CTTC, Bhubaneswar. 30th Nov - 17th Dec, 2019.
- Chukhu Chunka, Dept. of CSE attended a conference on 'Advanced Networks and Telecommunications Systems (ANTS-2019)' funded by TEQIP-III at BITS Pilani, Goa. 16th - 19th Dec, 2019.
- Ajay Yadav, Dept. of ECE attended a conference on 'AICTE Training & Learning (ATAL) Academic Program on Robotic' funded by TEQIP-III at NIT, Jamshedpur, Jharkhand. 23rd - 27th Dec, 2019.
- Ranjan Kumar & Gajendra Singh, Dept. of ME attended a conference on 'Application of GAS Filled Micro Bubbles in BIO Medical' funded by TEQIP-III at IIT Gandhi Nagar, Gujarat. 14th - 15th Dec, 2019.
- Bikram Kumar & Debjyoti, Dept. of CSE completed a project work funded by TEQIP-III at IISc, Bangalore. 18th Dec, - 2nd Jan, 2020.
- Animesh Das, Dept. of ME attended training on 'BMW Skill Next' funded by TEQIP-III at OSL Prestige, Kolkata. 18th Dec, 2019.
- Kakoli Roy, Dept. of ME completed NPTEL online course funded by TEQIP-III at NITAP. 12th Dec, 2019.
- Gulab Sah & Nabam Kakun, Dept. of CSE completed NPTEL online course funded by TEQIP-III at NITAP. 12th Dec, 2019.

- Jino L, Dept. of BAS attended a conference on 'Numerical heat transfer and fluid flow' funded by TEQIP-III at NIT Warangal. 17th - 19th Jan, 2020.
- Mancharla Ravi, Dept. of ECE attended MATLAB Project course on 'Massive MIMO, Cooperative Communication and Cognitive Radio for 5G Technology' funded by TEQIP-III at Andhra University, Visakhapatnam. 6th -11th Jan, 2020.
- Arup Kumar Das, Dept. of CE attended STC on 'Computer Aided Applied Numerical Analysis & Optimization Techniques' funded by TEQIP-III at IIT Guwahati. 17th - 21st Jan, 2020.
- Ranjan Kumar, Dept. of CHE completed NPTEL online course funded by TEQIP-III at NITAP. 17th Jan, 2020.
- Pritam Bhattacharjee attended, 'VLSID 2020-33rd International Conference on VLSI Design and 2020 19th International Conference on Embedded Systems' at Kodihalli, Bengaluru, Karnataka. 4th - 5th Jan, 2020.

Outreach Activities

Pledge Taking Ceremonies:

- Swachhta Pledge Taking Ceremony was organized by EMP TEQIP-III Cell, EBSB Cell, SBA Cell and NCC Unit at Seminar Hall on 16th Jan, 2020.



Photo: Pledge Taking Ceremony

- National Voters Day Pledge Taking Ceremony for infusion of democratic values was organized by The Registrar Cell, NITAP at Seminar Hall on 24th Jan, 2020.



Photo: National Voters Day Pledge Taking Ceremony

Ek Bharat Shreshtha Bharat (EBSB) Club:

Ek Bharat Shreshtha Bharat (EBSB) Club was inaugurated by Prof. Pinakeswar Mahanta, Director, NITAP on 26th Jan, 2020.

The Office Bearers:



Photo: Inauguration of EBSB Cell

Swachhta Pakhwada 2020:

Swachhta Pakhwada 2020 was organized by EMP TEQIP-III Cell, EBSB Cell, SBA Cell and NCC Unit from 16th - 31st Jan, 2020. Pledge Taking Ceremony, Idea Generation by MESS, NITAP, Special Lectures by Dr. Nabam Rich, Asst Professor, Dept of CE, Cleanliness Drive in the Campus, Cleanliness Drive in Pragati, Dikrong and Hornbill Hostels, Cleanliness Drive in the nearest village (Nyorch), Slogan Writing and Prize Distribution Ceremony were convened from 16th - 31st Jan, 2020.

The list of activities and winners of Swachhta Pakhwada 2020 at NITAP

Idea Generation Winners: First Prize: Mr. Saksham Goyal Mr. Sayan Pakira Mr. Amit Kumar Second Prize: Mr. Nitish Kumar Mr. Tech Abojum	Slogan Writing Winners First Prize: Mohd Tabrej Alam Second Prize: Bengia Tacham Third Prize: Gokar Poday
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Pledge Taking

Idea Generation Winners



Special Lecture and Hands-on Training by Dr. Nabam Rich on 30th Jan. 2020

Cleanliness Drive in the Campus



Cleanliness Drive in the nearest village (Nyorch)

Cleanliness Drive at Pragati Hostel



Cleanliness Drive at Hornbill Hostel

Republic Day Celebration:

71st Republic Day was celebrated at NITAP on 26th Jan, 2020. Prof. Pinakeswar Mahanta hoisted the flag and delivered a speech. Students' Cultural programmes were also convened during the celebration.



Photo: 71st Republic Day Celebration

Pariksha Pe Charcha 2020:

Pariksha Pe Charcha 2020 was organized by NITAP on 20th Jan 2020.



Pariksha Pe Charcha 2020 Observed by NIT Anunachal Pradesh

Photo: Pariksha Pe Charcha 2020

Inauguration of Various Toli:

Names of Toli	Coordinators	Photos
Swachh Bharat Toli	Faculty Coordinator: Dr. M.M. Singh Student Coordinator: Kajal Kumari	
Paryavaran Sanrakshan Toli	Faculty Coordinator: Dr. M. D. Ghatak Student Coordinator: Vaibhavi	
Nasha Mukta Abhiyan Ke Liye Kaam Karne Wali Toli	Faculty Coordinator: Dr. P. Meher Student Coordinator: Subhanshu	
Bijli Sanrakshan Toli	Faculty Coordinator: Dr. K. R. Singh Student Coordinator: Mikgan Mossang	
Fitness Club	Faculty Coordinator: Dr. Shubhajit Das Student Coordinator: Mikgan Mossang Kenbi Riba Nitish Kumar Tarh Gonkap Kajal Kumar	
Photography Club	Faculty Coordinator: Dr. R. P. Sharma Student Coordinator: Chandra Chandan	
Jal Sanrakshan Toli	Faculty Coordinator: Dr. Kimjolly Student Coordinator: Gyanam	

NCC Cell:

All India NCC 'B' Certificate examination which will be held on 09th Feb 2010 under the Guidance of 1 AP Battalion NCC UNIT, Naharlagun and Group HQ, Tezpur Unit at NIT Arunachal Pradesh, Yupia Campus. NCC Cadets of National Institute of Technology, 43 Nos of NCC Cadets of NITAP will appear in the examination.

UNNAT BHARAT ABHIYAN (UBA):

On the occasion of 71st Republic Day of India, the Grama Sabha was conducted by UBA Cell, NITAP in the adopted village Sandgupota. Dr. Dipak Sen, the coordinator of the UBA programme along with four students and two staffs organized Grama Sabha and had an interaction session with local government officials discussing the difficulties faced by the villagers.



Photo: Grama Sabha at adopted village Sandgupota.

Alumni's Voice

It is a great pleasure to share my experience in this edition of Technodaya. Firstly, I would like to thank NITAP for playing a very crucial role in shaping my life. I got enrolled at NITAP in 2015 for a B.Tech degree course in Electrical Engineering. Those four years (2015-19) at NITAP were the golden years of my life. During those years I got an exposure to different cultures and traditions of India as students from all over the country study here. In the hostel, we celebrated every festival like Diwali, Holi, Chhath Puja, Bihu, Nyokum, Losar, Makarsankranti etc. together with tons of joy and love. The knowledge and experience I have gained during four years B.Tech course not only helped me to excel in academics but also in personal development. Currently, I'm working in Power Grid Corporation of India Limited (POWERGRID) as an Assistant Engineer Trainee (AET). Every year POWERGRID visits NITAP for the recruitment of AETs. It is the golden opportunity for the students of Electrical Engineering to get into the Maharatna Company like POWERGRID

through a direct interview without considering GATE score. For Power system lovers, POWERGRID is the best company to work as it deals with the EHV transmission system, sub-stations i.e. 132kV, 220kV, 400kV, 765kV and +-800kV HVDC (both construction and maintenance). For those students who have a burning desire to crack POWERGRID interview must build good knowledge on the switchgear and protection system, sub-station, electrical machine especially transformer and basic of electrical engineering. Last but not the least, it is extremely euphoric to see that NITAP is taking fantastic steps like the signing of MoUs with different institutes, construction of TEL Auditorium, the formation of new clubs, publication of Technodaya, etc. Good Wishes.



Thutan Tenzin
Asst. Engr. Trainee
POWERGRID
Mobile: 9485219724

I am Sandeep Kumar Yadav. I did my B.Tech from NIT, Arunachal Pradesh in Electronics & Communication Engineering. Now I am working as a Research Assistant of Special Manpower Development Programme (SMDP) under the supervision of Dr. Alak Majumder at NIT, Arunachal Pradesh.

I am going to join National Taiwan University of Science and Technology, Taiwan to pursue my MS in Electrical Department (Analog Chip Design) in the month of February 2020.

After completing my MS I would like to join VLSI Industry. So at every stage of success I am grateful to NIT Arunachal Pradesh. There are no words to thank whole Electronics Department and other faculties of NIT Arunachal Pradesh. Best Wishes.



Sandeep Kumar Yadav
Research Assistant
NIT Arunachal Pradesh
sandeepyadavnit@gmail.com

I did my M.Tech from NITAP (Batch 2015-17). It's been a wonderful experience. Sweet memories and pleasures of NITAP are simply amazing. The professors are highly qualified and they encouraged me to do higher studies in the field of Entrepreneurship and International business. During the M.Tech Program, I have attended and presented my first research paper at XIME-IEF International Conference on Business Incubation in 2017. The knowledge and experience gained in NITAP helped me a lot during my interview for Ph.D in IIT Delhi. Now, I am a Doctoral Scholar at the Department of Management Studies, IIT Delhi. I am working in the area of International Business, Technology Management, Innovation, Strategic Alliance and International Joint Venture. My research papers were also presented and published as conference proceedings at several prestigious

academic conferences such as The Academy for Global Business Advancement World Congress (AGBA) and Global Institute of Flexible Systems Management International Conference. I have also got published my research paper in the Journal of Business Research, which is A Category Journal according to the Australian Business Deans Council (ABDC). I am looking forward to interact with my juniors and colleagues to share my ideas and experiences with them. I like NITAP for its freedom, intellectual awakening, and its various academic and extracurricular activities. I think that even after completing my M.Tech, I shall never forget the happy days I spent in college.

Thanks and Regards



Rishabh Rajan
Research Scholar
Department of Management Studies
IIT Delhi

Student's Voice

I am Akanksha Mudgal, currently in my final year of Engineering in Biotechnology studying in NITAP. With significant experience in Internships, I feel delighted to share some insight about what an Internship actually is and what it signifies.

I did my first internship at IASST Guwahati for 2 months and learnt the basics of research work and the work ethics. I failed many times even after working hard, but this hardship made me patient. Not only smart work but hard work too paid off.

I got my second internship at Cancer Research Institute by Indian Academy of Science, although the work was exciting, but the monotonous mundane was tough to deal with. I figured out the kind of work not suitable for me which helped me to narrow down my field of interest.

And finally, I got my final year project at Bhaba Atomic Research Center, Mumbai. It was a dream come true working for an organization of national importance and working in a sophisticated lab with proper ethics and lab culture. Here, the biggest challenge faced was the prohibition on electronics drawing me far from the social media which in turn made me realize the importance of communication.

All the internships not only helped me increase my intellect but also helped me gaining clarity about the direction I am supposed to choose for my future. Be it a bad or a good experience, every internship helped me to learn the lesson making me wise and prepared me for facing the real world waiting for me out there.



Akanksha Mudgal
B.Tech in Biotechnology
NITAP

Observation of Swachhta Pakhwada 2020

Organized by EMP (TEQIP III), EBSB, SBA and NCC unit
w.e.f 16th Jan to 31st Jan 2020



Photo: Prize Ceremony and Installation of Sanitation Kits

ESIC-2020

INTERNATIONAL CONFERENCE ON ELECTRONIC SYSTEMS AND INTELLIGENT COMPUTING (ESIC-2020) is scheduled to be organized by Department of ECE during 2nd - 4th March 2020 under Springer. The essential goal of ESIC-2020 is to give a stage to both electronic hardware and software to communicate under one umbrella for further improvement of shrewd electronic frameworks. It brings a host of programs including Expert Talk by National and International Speakers, Exhibition by Subject Experts, Plenary Talks on Electronics, Chip Design, Machine Learning, Cyber Physical Systems and Many More. We welcome one & all to attend the said event to make it a grand success.

Conference Chair: Dr. Preetisudha Meher
Conference Co-Chair: Dr. Alak Majumder

Contact Details:

Mobile: 9438823600 & 9436288578

Email: esic@nitap.ac.in