

From the Director's Desk.

NIT Agartala, one of the 31 NITs of the country, is an institute of national importance. The institute is ranked within 100 top technical institutions of the country in NIRF ranking for the last five consecutive years. In this year 2022, the institute secured 80th position among the engineering institutes in India as revealed by NIRF ranking system, Ministry of Education. There are 9 (nine) branches in B. Tech. Level, 23 (twenty three) specializations in Engineering at Master's Level and 4 branches in Dual Degree Level. The institute also offers MBA, MCA, M. Sc. and Doctoral Programs. The institute has seen an excellent growth in its infrastructure & academic activities in recent years. The institute is also equipped with high-end laboratories that ensure an opportunity for the students to work independently. Beside this, the institute conducts various awareness programs and other activities throughout the year. Because of its overall performances, the institute has now established

MOU with Durban University

MoU Between NIT Agartala and Composite Research Group, Durban University of Technology, South Africa (hereinafter "CRG") agreed to build cooperation by signing a MoU to promote academic, research and educational exchange between these institutions. This MoU was signed by the



A wink to NIT Agartala from the eyes of the Director.

itself on a platform of technological excellence in a very short period of time.

NIT Agartala has signed MoUs with several Institutions of National and International repute. The institute has established Institute Innovation and Startup as a flagship program which is in line with the National Innovation Policy and Startup initiative. The institute is committed to bring research & innovation at the forefront, therefore efforts have been made to establish incubation centre, SDTC etc.

The newsletter, Udantah provides

updates and information regarding various activities, events and achievements of the institute. It will also provide relevant information to all the stakeholders about the institutions, teachers and students. I am confident that, the institute will expand to the new heights of excellence in the years to come with the rigorous efforts of all the stakeholders. In this regard, the newsletter Udantah will play a pivotal role to strengthen the relations with stakeholders.

Director of NITA Dr. H.K. Sharma and Dy. Vice Chancellor (Acting) of CRG Prof. Sibusiso Moyo. The MoU is a form of mutual commitment in complementing each other's duties and function in the perspective of cooperation in educational and scientific research, development of exchange of students, graduates, and teaching professors. The research students and faculty members are thrilled to hear the new endeavour from AA&IR section of their beloved institute, NIT Agartala and felt that these type of MOU not only cater the internationalisation of brand, NIT Agartala, but also laying the scope of the budding researchers from this institute to compete and collaborate with outer world.

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Special points of interest:

- MOU
- 15th Convocation.
- Alumni Meet
- AAYAM 8.0
- 74th Republic Day celebration
- Journal paper named mentioned in Mann Ki Baat program.
- Training program under the Cyber Gyan project .

Inside this issue:

Cyber Gyan project	2
Papers & Journals	2
Webinars	2
interactive session	3
Various Programs	3
Renowned Conferences	3
Outreach Programs	4
Faculty as Keynotes speaker	4
Funded projects	5
News & Events	5
Remarkable Achievements	5

15TH CONVOCATION OF NIT AGARTALA was held at its Visvesvaraya Auditorium .

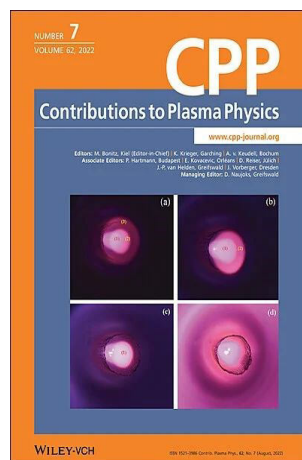
15th Convocation of NIT held at its Visvesvaraya Auditorium on Nov 12, 2022 . Padma Shri Prof. Deepak B Phatak was Chief Guest & delivered Convo Address. Amit Bhattacharjee, MD, Accenture, Guest of Honour. Prof. H K Sharma, Ch'person BoG & Director presided over & awarded degrees to students.

In this convocation, more than 50 Ph.D. Scholars, 161 M. Tech, 10 MCA, 34 MBA, 22 M. Sc, 731 B.Tech, 43 BS, 15 BT Students, 32 BSMS and 10 BTMT students will get their degrees.



Book & Journal Papers

1. Journal paper "Optimization and kinetic study of ultrasonic-mediated phycoerythrin extraction from *Anabaena* sp" in renowned journal "Biomass Conversion and Biorefinery" was published by Dr. Tarun Kanti Bandyopadhyay (Asst. Prof of Chemical Engineering Department.)
2. Journal paper "Hydro geochemistry and quality evaluation of groundwater and its impact on human health in North Tripura, India" in renowned journal "Environmental Monitoring and Assessment" was published by Dr. Ajay Kumar Manna (Asst. Prof. of Chemical Engineering Department.)
3. Journal paper "The eco-friendly treatment of rubber industry effluent by using adsorbent derived from *Moringa oleifera* bark and *Pseudomonas* sp, cultured from effluent" in renowned journal "Journal of the Indian Chemical Society" was published by Joydeep Das, Abhijit Mondal, Srijit Biswas and **Dr. Soma Nag**.
4. Total 8 SCI Paper published by Department of Chemistry during September to December.
5. Cover photo selected from the published paper of Dr. Manash Kumar Paul , Asst. Prof ,Dept. of Physics in Wiley's Journal



Webinars & Workshops

- Dr. Shailendra Singh, Asst. Prof., EE Dept. has delivered his speech as Invited speaker for the Institution's Innovation Council (MoE) Celebration Activity Expert Talk Series-3 at on Innovative Approaches for Energy Conservation On the occasion of National Energy Conservation Day on Dec. 15, 2022.
- One Day Online Progrmame was organized by Centre for Career Devel-

opment, NIT Agartala on Leadership centre in India on 2nd September, 2022. The Key Speaker was from Deloitte. **He** discussed about the leadership qualities and career opportunities for the students in the Deloitte. In total, more than 100 students participated from all Branches of the institute



One Day Seminar on 'Power Converters and Drives for Electrical Vehicles'

Interactive sessions

- 6 Days Workshop on “Recent trends in Engineering on Emerging Technologies” From 17th to 22nd October, 2022 was organized by the Chemical Engineering Department.
- On 28-09-22 for the festivity of Hindi Pakhwara, an interactive poster presentation was arranged by the students of Department of Chemistry, NIT, Agartala. In this regards I have attached some photos on interactive sessions
- A One Day Virtual Corporate Lecture Series on Investor Awareness Program by Mr. Hemraj S. Joshi was

conducted by the Department of Management, Humanities & Social Sciences on 27th November, 2022. The expert speaker was Mr. Hemraj S. Joshi, Chartered Accountant, Delhi NCR, Pagdandi Edusol Private Limited. He highlighted the importance of investment and connecting link and contact.



“The highest education is that which does not merely give us information but makes our life in harmony with all existence.”

- Rabindranath Tagore

Photos related to Interactive sessions and celebration of Azadika Amrit Mahotsav under various program

Various Programs

- Integrity Pledge taking program was held on 31st October.
- On 11-08-22 for the celebration of Azadika Amrit Mahotsav, Department of Chemistry, NIT, Agartala, organized a colourful program of rangoli design by the students of Chemistry where the whole department including faculties, research scholars, students as well as all other stuffs were also involved. In this regards I have attached some photos.
- Dr. Subhadeep Bhattacharjee, Associate Professor & Former Head, Dept. of EE, NITA and Chairman IEI Tripura State Centre has presided over a One Day Seminar on ‘Recent

Trends in Concurrent and Emerging Technologies” on 22.11.2022 at Gomati District Polytechnic, Udaipur, Gomati Tripura..

A One Day Virtual Corporate Lecture Series on “Career Growth & Industry Trends” was organised by the Department of Management, Humanities & Social Sciences, NIT Agartala on 14th December, 2022.

A One Day Virtual Corporate Lecture Series on “HR Trends” was organised by the Department of Management, Humanities & Social Sciences, NIT Agartala on 29th December, 2022. The expert speaker was Mrs. Hijam Geetanjali, Chief Manager (IR/ Welfare), Power Grid Corporation of India

For a successful technology, reality must take precedence over public relations, for Nature cannot be fooled.

Richard P. Feynman

Renowned Conferences

- One conference paper named “Comparative Performance Assessment of Multi Linear Regression and Artificial Neural Network for Prediction of Permeate Flux of Disc Shaped Membrane” authored by A. Banik T K. Bandyopadhyay (Asst. Prof ChE), S. K. Biswal, V. Panchenko, S. Garhwal is published in Lecture Notes in Networks and Systems book series (LNNS, volume 569).
- 7th International Conference on Research Innovations CRI-2022 (Penang, Malaysia)

(Mr. Prasenjit Debnath, Asst. Prof., E.E. Deptt.)

“Failure will never overtake me if my determination to succeed is strong enough.”

- Dr. A.P.J Abdul Kalam

This year Alumni Meet was held during 14-15 Jan '23. Inaugurated by Director Prof H.K. Sharma, meet nicely connected alumni with Alma Mater. Silver Jubilee batch was felicitated.



Two days training program under the Cyber Gyan project funded by MeitY in the month of December, 2022.

Two days training program had conducted under the Cyber Gyan project funded by MeitY at NIT Agartala on 6-7, Dec 2022. Dr. Arti Noor, Senior Director and Ms. Rekha Saraswat, Joint Director, from CDAC, Noida were the Guest Speakers of the program. Dr. John Deb Barma, Chairman, Centre for Career Development and Associate Professor, Mechanical Engineering Department, NIT Agartala had shared his view regarding Cyber Security. The event was organized by the Centre for Career Development, NIT Agartala. The main of this training program to set up and establish a Cyber Security training facility for a Self-Paced based mode of learning to develop skilled manpower in the highly needed domain of

cyber security to safeguard critical infrastructure from cyber-attacks. It enhancing the capability of the students by providing a real-time scenarios-based virtual lab environment to experience live cyber-attacks like DoS, MITM, spoofing, OS vulnerability, SoC, etc., and learning defense through Red & Blue team-based activities.



Azadi ka Amrit Mahotsav was celebrated in the Chemical Engineering department and a graphite was made by the student of The Dept.

Faculty as Keynotes speaker

- Dr. Mriganka Sekhar Manna, Assistant professor of chemical Engineering department delivered a speech in Seminar Program of Chemical Engineering Division organized by The Institute of Engineers, Tripura State Centre.
- Dr. Jayanta Kumar Rakshit, Assistant Professor, EIE Department, has delivered a lecture as resource person to One-week Online FDP programme on Recent development in New Engineering Materials and Applications (RDEMA) on 19 September 2022 at Vellore Institute of Technology, Tamil Nadu, India.
- Dr. Biswajit Saha (Assistant Professor of Physics Department) delivered invited lecture in the Faculty Development Program (FDP) under the scheme AICTE Training and Learning (ATAL) Academy on "FUNDAMENTALS ON THIN FILM PREPARATION AND CHARACTERIZATION TECHNIQUE" held on 19-30- SEPTEMBER 2022 in Tripura Central University.

- **Dr.V.C. Padmanaban**, was a reviewer as a Faculty of Applied Sciences in Durban University of Technology, South Africa

AAAYAM 8.0 - Technical Fest of NIT Agartala



in technical projects prepared & presented by different student clubs

Technical Fest of NIT Agartala was held during 27-29 Jan'23. The fest was inaugurated by Director Prof H. K. Sharma in a grand opening ceremony. Event showcases talents of students the form of various

We should remain students for lifetime. You should be ready and yearn to learn from every moment of life. The basic elements of life need to be associated with learning. The learning process should be a part of your DNA.

- Narendra Modi

Funded projects at a glance .

A project, named as Edible coating from waste biomass increasing shelf - life periods of fruits and vegetables of Rs. 65.43 lakh is sanctioned by Defense Research & Development Organization (DRDO), India where the Co-Principal Investigator of the project is **Dr. Kalyan Gayen**.

74th Republic Day celebrated at NIT Agartala with great enthusiasm. In morning Di-

74th Republic Day celebrated at NIT Agartala



rector Prof. H.K. Sharma unfurled our National Flag in presence of students, faculty & staff. Director urged all to respect our constitution & contribute towards progress of our nation in all fronts

It's not that I'm so smart, it's just that I stay with problems longer.

- Albert Einstein.

News & Events

- A two day long International conference on Intelligent Vision and Computing (ICIVC-2022) has been organised by Department of mathematics NIT Agartala in association with Soft Computing Research Society, from 26th November to 27th November in online mode.
- A program is being organised in the Department of Mathematics at 01:00PM on 31.10.2022 to observe the 'Unity Day' as mandate of 'PaanchPran'.



National Mathematics Day (NMD), 2022 was celebrated in National Institute of Technology (NIT) Agartala in collaboration with Tripura Mathematical Society (TMS)

on 22nd December 2022 to commemorate SrinivasaRamanujan's 135th Birthday, the great mathematical genius who made exemplary contribution to Mathematics. As a tradition to celebrate the NMD 2022, a program is being organized in the Department of Mathematics at 10:00 am on 22nd December 2022

Remarkable Achievements

- A book chapter "Valorization of Waste Biomass as a Strategy to Alleviate Ecological Deficit: A Case Study on Waste Biomass Derived Stable Carbon" was published in renowned book "Advanced Microscopy" by Dr. Srimanta Ray(Asst Prof. & Head of Chemical Engineering Department.)
- Journal paper named "Pencil lead powder as a cost-effective and high-performance graphite-silica composite anode for high performance lithium-ion batteries" in renowned journal "Journal of Alloys and Compounds" published by **Mamidi Suresh (Asst.Prof,**

Chemical Engg Dept.), Alok K. Pandey, Anil D. Pathak, Tata N. Rao, and Chandra S. Sharma was mentioned by the **honorable Prime Minister in Mann Ki Baat program.**

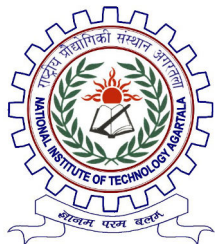
Dr. Tarun Kumar Misra had been nominated as a Resource person and delivered a talk for a Refreshers' course of UGC HRDC, Manipur University

- Dr.Uttam Kumar Bera, Associate Professor, Department of Mathematics, NIT Agartala was elected as Office Bearers and Council Members of Operational Research Society of India for 2023-2024.

- A book chapter "Fundamentals of Enzyme-based Biorefinery for Conversion of Waste to Value-added Products" by Pinku Chandra Nath, Biplab Roy, **Tarun Kanti Bandyopadhyay**, Biswanath Bhunia, Muthusivaramapandian Muthuraj published in book "Enzymes in the Valorization of Waste- Next-Gen Technological Advances for Sustainable Development of Enzyme

Media Page.

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Mr. Dhrubajyoti Bhowmik
Asst Prof, Member



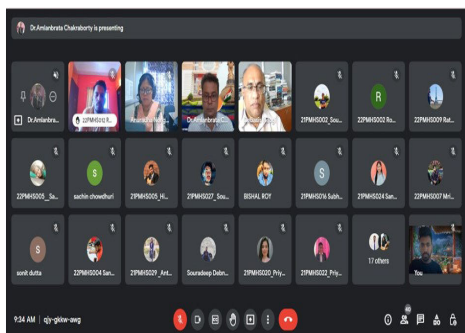
Mr. Malay Paul
Technical Staff



Mrs. Sarbani Das
Technical Staff

Udantali is a newsletter published by NIT Agartala. It paves a role to showcase the major events, activities and achievements of the Institute. This newsletter will provide avenue to increase a better understanding and knowledge of our institute.

Institute Innovation Council and Startup



A moment of Constitution Day Celebration through Virtual Mode

Constitution Day was celebrated by the Department of Management, Humanities & Social Sciences (MHSS) through virtual mode on 26th November, 2022. The program was inaugurated by Prof. Debasish Neogi, HOD, MHSS, with his welcome address and highlighted the significance of the Constitution Day. Dr Amlanbrata Chakraborty explained the meaning and importance of the preamble. The session ended with reading the preamble by the participants. The session was attended by Faculty Members as well the MBA students of the department.



A moment of Pre placement talks of TATA Elxsi.

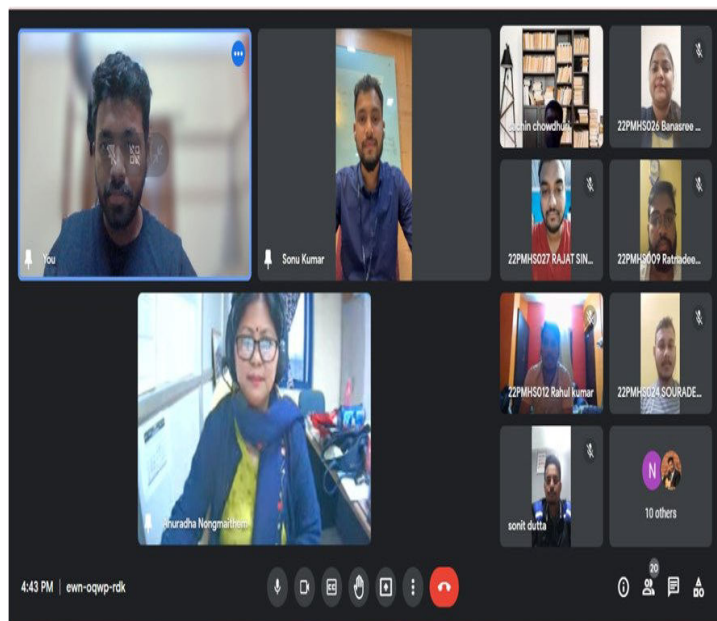
Pre placement talk of TATA Elxsi was conducted through physical mode for NIT Agartala Students. In the PPT talk it was discussed about the career opportunities for the students in the TATA Elxsi. In total, more than 200 students participated from all Branches of the institute. The program was huge success which benefited the students to cope up with the new challenges in the area of high-end technological innovations.

A virtual mega entrepreneurship boot camp focused on 'Social Entrepreneurship' Ignite '21



A glance on our dedicated Social media Page.

 <https://www.facebook.com/nit.agartala.501>



Journal paper named "Pencil lead powder as a cost-effective and high-performance graphite-silica composite anode for high performance lithium-ion batteries" was mentioned by the honorable Prime Minister in Mann Ki Baat program.

