Bi-Annual

NEWSLETTER







NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR







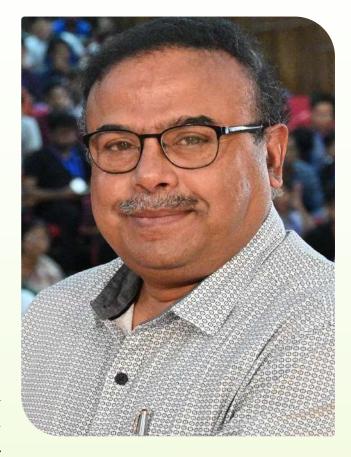


FROM THE DIRECTOR'S DESK

Dr. Anupam Basu

Greetings from NIT Durgapur!

I am glad to inform you that the Pandemic has not dampened the spirit of Teaching-Learning-Research-Innovation of our faculty members and students as exhibited in the promising signs of development in the NIRF ranking. The institute is expanding and refurbishing its infra-



structure in line with the growing needs. It is my pleasure to state that NIT Durgapur is setting up Utkarsh Bhavan, a multi-storied central research academic building (with the HEFA loan) which will house central research facility, central laboratory facility and four state of the art centres for advanced research. A state-of-the-art studio has also been established to supplement online teaching learning process. A 1500 capacity new auditorium has also been inaugurated recently.

The institute took all possible measures to stand up to the challenges posed by Covid-19. Faculty members especially took active interest in innovation to combat the pandemic. More than 71 percent students have been placed in reputed companies and organizations through campus selection. The faculty members and the students are collaborating for research with the leading universities and industries of India and the world. A series of webinars were organized to disseminate scientific knowledge and thus networking with the global partners has been possible. This edition of the Newsletter summarizes the multidimensional activities (both academic and extracurricular) of the institute during the period concerned.

Seminars & Invited Talks Hosted

- A seminal lecture on the role of students and youth in the freedom struggle of India was delivered by Prof. Kunal Chattopdhyay of Jadavpur University on March 12, 2021 as a part of Azadi Ka Amrit Mahotsav an initiative of the Ministry of Education for celebrating 75 years of India's independence. The programme commenced with introductory comments by Prof. Anupam Basu, Director, National Institute of Technology, Durgapur.
- ▶ Nobel laureate Prof. Ada E. Yonath (Nobel Prize in Chemistry, 2009) delivered an online talk on "next-generation antibiotics' on April 4, 2021 to UG/PG students of the Chemistry department. The seminar was co-hosted by Dr. Deb Ranjan Banerjee, Department of Chemistry, NIT Durgapur and SRM University Haryana.
- One-day national Webinar on "Optimization Problem and its Application", WOOPA- 2021 in collaboration with ORSI Durgapur chapter was held on April 18, 2021 at the department of Mathematics. Dr. Aniruddha Samanta and Dr. Supriya Kar, members of ORSI Durgapur delivered invited talks.
- The EU and India's Strategic Partnership Agreement is concerned about the transition to renewable energies and it focuses on ensuring coverage to all households. But when solar energy is only supplied during the day, how to strike a balance between quantity and quality? How can a remote village become energy independent with solar, wind, and other forms of renewable resources? "Energy Security" was organized on May 02, 2021. Dr. Victor Mukherjee (Senior Research & Development Engineer in ABB OY, Finland) talked to Dr. Sukumar Mishra (Professor, IIT Delhi), Dr. Tapas Kumar Saha (Professor, NIT Durgapur), and Dr. Rahul Walawalkar (President & MD of Customized Energy Solutions, India) on the future of India's energy transition.









Conference Organized

Three days International Conference titled 'Recent Development in Chemistry (RDC-2021)' was organized during March 3-5, 2021 by the Department of Chemistry. Nobel laureate Prof. Jean-Marie Lehn delivered the keynote lecture in this conference. Prof. Sankar Chandra Moi, Dr. Subhas Ghosal, and Dr Deb Ranjan Banerjee were the organizing Secretaries of the conference. The conference was chaired by Prof Rajnarayan Saha (HOD, Chemistry).



Workshop Organized

■ Five-day online Faculty Development Program (FDP) on "Waste Valorization towards a Sustainable Environment" was organized during June 14-18, 2021, by Dr. Bimal Das, Prof. Gopinath Halder and Dr. Bikash Mondal, Department of Chemical Engineering and sponsored by AICTE Training and Learning (ATAL) Academy.



Invited Talks Delivered

- ▶ Dr. Arup Kumar Mandal delivered an invited talk on the topic "Recycling and Utilization of Integrated Plant Waste Materials" of the Short Term Course on Creating Wealth from Waste- CWW-2021, Sponsored by ATAL ACADEMY, Government of India, and organized by MME Department, NIT Durgapur on January 19, 2021.
- ▶ Dr. Anita Pal delivered an invited talk on the topic "Graph Theory and its Applications" as in the "Lecture Series on Mathematics", organized by Theivanai Ammal College for Women Villupuram, Tamil Nadu on February 04, 2021.
- ▶ Dr. Sirshendu Mondal delivered a talk on "Describing and Controlling Thermoacoustic Instability through Synchronization Theory" as an expert speaker in a five-day TEQIP-III Sponsored Online Workshop on "Recent Trends in Thermo-Fluids" (RTTF 21) organized by NIT Sikkim during February 22-26, 2021.

- ▶ Dr. Aniruddha Bhattacharya delivered an invited talk on the topic "Planning of Electrical Vehicle Charging in Distribution Network" in a TEQIP-III sponsored Workshop at NIT Sikkim on February 26, 2021.
- ▶ Dr. Gautam Bandyopadhyay delivered an invited talk on the topic "Factor Analysis using R Studio over Online Meeting Platform" at A. K. Dasgupta Centre for Planning and Development, a center sponsored by the NITI AAYOG, Govt. of India, on February 27, 2021.
- ▶ Dr. Anita Pal delivered an invited talk on the topic "Importance of Science in modern era" on "National Science Day Celebration 2021", organized by Jawahar Navodaya Vidyalaya, Durgapur on February 28, 2021.
- Dr. Arindam Modak delivered an Invited Lecture on "Writing Research Paper" for the undergraduate students of VIT University, Vellore, on March 01, 2021.
- Dr. Anita Pal delivered an invited talk on the topic "Abstracting and Indexing of Journals" in the "One-Day National Webinar on Indexing and Referencing of Journals in Research (WIRJR-2021)" organized by ORSI Durgapur, on March 7, 2021.
- Dr. Anita Pal delivered an invited talk on the topic "Role of women in society and education" on "Women Empowerment in the International Women's day organized by Ankit Educational and Social Welfare Society, Durgapur, on March 8, 2021.
- Dr. Sirshendu Mondal delivered a talk on "Describing and Controlling Thermoacoustic Instability through Synchronization Theory" as an expert speaker in an online Workshop on "Recent Trends in Sustainable Energy and Industrial Technologies" organized by The ICFAI University Tripura during March 17-19, 2021.
- Dr. Arindam Modak delivered an Invited Lecture on "How to Write an Effective Research Paper" for the PhD students of VIT University, Vellore, on March 26, 2021.
- Dr. Aritro Dey delivered an invited talk on the topic, "Control Law for Light Combat Aircraft: An Overview", in a short term training program organized by Silicon Institute of Technology, Bhubaneswar in association with IEEE Bhubaneswar subsection PES and IES Chapter on April 5, 2021.





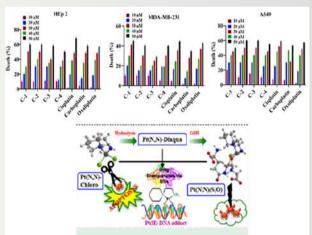


- ▶ Dr. Gautam Bandyopadhyay delivered an invited talk on the topic "Dimension Reduction Using R Studio" at Bharatiya Vidya Bhavan Institute of Management Science, Kolkata, sponsored by AICTE over Online Meeting Platform on April 24, 2021.
- Dr. Gautam Bandyopadhyay delivered an invited talk on the topic "Dimension Reduction in Business Analytics" at CSE Department of MCKVIE on April 24, 2021, sponsored by ATAL-AICTE.
- ▶ Prof. Seema Sarkar (Mondal) delivered an invited talk during a one-day state level webinar on some areas of advanced mathematics in undergraduate level, organized by Sitananda College, Nandigram, West Bengal on April 30, 2021.
- ▶ Dr. Gautam Bandyopadhyay delivered an invited talk on the topic "Dimension Reduction Using R Studio" at Bharatiya Vidya Bhavan Institute of Management Science, Kolkata, sponsored by AICTE, on May 1, 2021.
- ▶ Dr. Gautam Bandyopadhyay delivered an invited talk on the topic "Dimension Reduction Using R Studio" at Bharatiya Vidya Bhavan Institute of Management Science, Kolkata, sponsored by AICTE on May 8, 2021.
- ▶ Dr. Gautam Bandyopadhyay delivered an invited talk on the topic "Principle Component Analysis and Discriminant Analysis" at A. K. Dasgupta Center for Planning and Development, a center sponsored by the NITI AAYOG, Govt. of India, on May 16, 2021.
- ▶ Dr. Aniruddha Bhattacharya delivered an invited talk on the topic "Future Development of the Electricity Systems with Distributed Generation", in a Faculty Development Program, organized by GMIT, Kolkata, technically sponsored by IEEE-PES, Kolkata Section, on May 28, 2021.
- ▶ Dr. Gautam Bandyopadhyay delivered an invited talk on the topic "1) Linear Model & Regularization 2) Feature Selection & Feature engineering" at CSC Department of NIT, Durgapur in the ATAL Program sponsored by AICTE, on June 1, 2021.
- ▶ Dr. Aniruddha Bhattacharya delivered an invited talk on the topic "Effect of EV growth on Grid Security", in a HRD Training program, organized by ERLDC, Power System Operation Corporation, on June 15, 2021.
- ▶ Dr. Gautam Bandyopadhyay delivered an invited talk on the topic "Research Methodology" as a part of Ph. D. coursework, organized by the Department of Commerce & Management of West Bengal State University on June 19, 2021.
- Dr. Gautam Bandyopadhyay has acted as a speaker in Plenary Session of the 1st International Conference on Emerging Issues in Business and Technology (ICEiBT) on June 26, 2021 on the topic "New Normal: Challenges and Opportunities for Academia", organized by School of Management and Commerce, Brainware University, India.
- ▶ Dr. Gautam Bandyopadhyay delivered an invited talk on the topic "Correlation & Regression using Jamovi" at Exceller Open in collaboration with University of Calcutta Affiliated Naba Ballygunge Mahavidyalaya (NAAC accredited B+) on June 27, 2021.

Awards & Honours

FACULTY

- ▶ Prof. Pathik Kumbhakar, Department of Physics, and Dean (Academic Research) has been admitted as a Fellow of the Royal Society of Chemistry (FRSC, England).
- ▶ Prof. Amit Chakraborty, Department of Physics, has become a Fellow of the Royal Society of Chemistry (FRSC), London.
- ▶ Prof. Subrata Banerjee, Department of Eletrical Engineering has been nominated as Associate Editor with Transportation Electrification IEEE(USA) (specialty section of Frontiers in Future Transportation) on June 25, 2021.
- ▶ Prof. S. C. Moi and his co-workers, Department of Chemistry have developed novel platinum based anticancer agents, which is published as research article in prestigious Journal ACS Applied Bio Materials (J. of American Chemical Society). Anticancer activities of these compounds are comparable to cis-platin. Cis-platin is a well-known anticancer drug, used throughout the globe as a chemotherapeutic drug.



STUDENTS

- Sucharita Pal was awarded the Certificate for the Best Presenter in the Machine Learning and Artificial Intelligence Division. The paper titled "Artificial Intelligence based modelling and multi-objective optimization of commercial Ethylene Oxide reactor' by Sucharita Pal, Sandip Kumar Lahiri, Department of Chemical Engineering, NIT Durgapur was presented in the International Conference on "Interdisciplinary Research in Technology and Management" held during February 26-28, 2021.
- Following students from the Dept. of Chemistry have exhibited remarkable feats:
- International Conference on
 INTERDISCIPLINARY RESEARCH IN
 TECHNOLOGY & MANAGEMENT

 CERTIFICATE

 OF BEST PRESENTER

 THIS IS PROUDLY PRESENTED TO
 Sucharita Pal
 (National Institute of Technology, India)
 FOR THE PAPER TITLED

 Artificial Intelligence Based Modelling and
 Multi-Objective Optimization of
 Commercial Ethylene Oxide Reactor
 IN THE SESSION
 Machine Learning & Artificial Intelligence
 (Session 12)

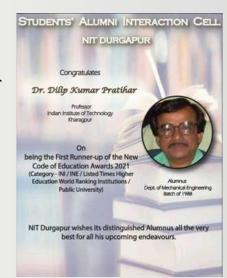
 AT IRTM 2021 HELD FROM 26TH 28TH FEBRUARY 2021

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- Sarbajit Layek, 2-yr MSc, Sem IV, Shortlisted for INSPIRE fellowship by DST, GOI
- Rituparna Bhaduri, PhD student under the supervision of Prof S. C. Moi secured Best Poster Award at NIT Surat in two days international webinar

- Manoj Singh, 5-yr Int. MSc, Sem 8, Selected for summer internship at ONGC
- Dolly Singh, 5-yr Int. MSc, Sem 8, Selected for summer internship at ONGC
- Ankan Pramanik, student of 5th semester, Dept. of Mechanical Engineering, and team leader of 'The Brain Scripts' was selected in the Final Round of ToyCathon, a national level Hackathon organized by the Govt. of India. Pritam Chakraborty and Sayak Das were his teammates.

ALUMNI

- ▶ Dr. Dilip Kumar Pratihar, Dept. of Mechanical Engineering, batch of 1988, became the First Runner-up of the New Code of Education Awards 2021 (Category INI/ INE/ Listed Times Higher Education World Ranking Institution/ Public University). The Students' Alumni Interaction Cell, NIT Durgapur has congratulated Dr. Pratihar for his achievement.
- Siddharth, an alumnus of the Dept. of Chemical Engineering (UG 12-16), joined Harvard as a Post-Doctoral fellow. In this connection, mention may be made of one of institute's former



M. Tech. (AMST) students, Avishek Dey (who did his M. Tech. project under the guidance of Prof. Amit Chakraborty) has started working as a Post-Doc at University College London since March 2021. Avilash Singh Yadav, an alumnus of NIT Durgapur and associated with the Dept. of Biotechnology, recently completed his PhD from Monash University and received a postdoc offer from Cornell University USA.

Sponsored & Consultancy Projects

■ Title: Proof checking of different projects

Principal Investigator: Dr. Somnath Karmakar, Dept. of Civil Engineering **Sponsored Agency:** NHAI (GOI), Railway (GOI), Central University Jharkhand, Ranchi, GOI, Smart city network at Bhagalpur, GOB, Housing Board, GOWB

Month & Year of Sanction: 01.01.2021 to 30.06.2021

Total Fund: ₹ 33, 97,900

■ **Title:** Structure elucidation of simple hydrocarbons through Global Optimization using Density Functional Theory and post HF methods.

Principal Investigator: Dr. Subhas Ghosal, Dept. Of Chemistry, NIT Durgapur Co-Principal Investigator: Anoop Ayappan, Dept. of Chemistry, IIT Kharagpur

Sponsored Agency: DST under NSM

Month & Year of sanction: March, 2021

Sanctioned fund: ₹25,52,000

Patents

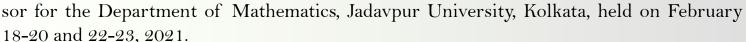
■ Goutam Panigrahi et al. filed the Patent Titled "System and Method for performing Secure Transactions of Digital Crypto currencies using Block chain Technology". Application Number: 202141032739 Date: 21.7.2021.

Collaborative Activites

- ▶ Dr. Achintya Kumar Pramanick of Dept. of Mechanical Engineering has started collaboration with University of Stuttgart, Germany, Duke University, USA; University of Lorraine, France; Universidade Do Vale Do Rio Dos Sinos, Brazil on Thermodynamics. He is also collaborating with Central Mechanical Engineering Research Institute, Durgapur on Heat transfer.
- ▶ Dr. Aparesh Datta, Dept. of Mechanical Engineering is continuing his collaboration with Dr. Sudev Das (NIT Calicut) on 'Boiling heat transfer'. He is also collaborating with Dr. Nirmalendu Biswas (Jadavpur University) on 'Natural Convection'.
- ▶ Dr. Sirshendu Mondal, Dept. of Mechanical Engineering has started collaboration with Dr. Aparesh Datta (NIT Durgapur) on 'Non-linear fluid dynamics in solar air heater'. He is continuing collaboration with Prof. Achintya Mukhopadhyay (Jadavpur University, Kolkata) and Prof. Swarnendu Sen (Jadavpur University, Kolkata) on 'prediction of lean blowout in gas turbine engine using time series analyses'. He is also collaborating with Dr. J. Venkatramani (Shiv Nadar University, Noida) on 'synchronization in aeroelastic systems'.
- ▶ Dr. Tanmay Kumar Saha, Dept. of Chemistry is collaborating with Dr. C. Halder, Dept. of Chemistry (IIT ISM Dhanbad). Area: Collaboration work and instrumental support towards the synthesized molecules.
- ▶ Dr. Subhas Ghosal, Dept. of Chemistry is collaborating with Dr. Anoop Ayappan, Dept. of Chemistry (IIT Kharagpur) on High Performance Computing.
- ▶ Dr. Arup Kumar Mondal, Dept. of MME is collaborating with Prof. O.P. Sinha, (IIT BHU) on Iron and Steel making, E-waste, and Plasma melting. He is also collaborating with Dr. Mohd. Talha, School of New Energy and Materials, Southwest Petroleum University, China. He has collaborated with Dr. Nawshad Haque, CSIRO Australia on Life Cycle Assessment (LCA) of Iron and Steel Making and Hydrogen energy.

Outreach Activities

- Prof. Subrata Banerjee has examined a PhD Thesis of Electrical Engineering of MAKAUT University in January, 2021.
- ▶ Dr. Lakshmi Kanta Dey has acted as an adjudicator in a Refresher Course-Mathematics organized by the University of North Bengal on January 20, 2021.
- ▶ Prof. Seema Sarkar (Mondal) has acted as Chairperson of the program "Aarohan 2021" and also acted as judge for virtual TechMela 2021.
- Dr Anita Pal has acted as judge in "Aarohan 2021", in virtual mode.
- ▶ Dr. Sutanuka Banerjee acted as a judge in Youth Parliament 2021.
- Dr. Anita Pal has acted as a Guest of Honor and delivered an invited talk on "Development of Economy through Trade & Industry" organized by India International Grand Trade Fair (IIGTF), Gandhi Maidan, Durgapur, India during February 5-15, 2021.
- Prof. Seema Sarkar (Mondal) has acted as an Expert to the Selection Committee for appointment to the post of Assistant Profes-





- ▶ Prof. Seema Sarkar (Mondal) has chaired the session titled "Coding, Algebra, Optimization" in the 7th ICMC, 2021 on March 4, 2021 in IIEST, Shibpur, West Bengal.
- ▶ Dr. Gautam Bandyopadhyay has acted as a member of the Board of Studies of School of Management of JIS University on March 12, 2021, through online platform.
- ▶ Prof. Kajla Basu has acted as the external examiner for PhD candidate Ms. V. Vidhya at Department of Mathematics, SRM IST, Kattankulathur, Chennai on April 8, 2021.
- Dr. Gautam Bandyopadhyay has acted as an external member of Academic Advisory Board of Calcutta Business School (an unit of Shikshayatan Foundation) on May 18, 2021.
- Dr. Sutanuka Banerjee acted as a paper setter for Research Methodology and essay writing for RET Examination at the department of Mining Engineering in Kazi Nazrul University.
- ▶ Prof. Kajla Basu has joined as external Doctoral Committee (DC) member for PhD student at Department of Mathematics, SRM IST, Kattankulathur, Chennai on June 22, 2021.

Institutional Activities

16th CONVOCATION

The 16th convocation of NIT Durgapur was held online on January 12 2021. The chief guest and the guest of honor of the ceremony were Dr. Ramesh Pokhriyal Nishank, honourable Sikshamantri, Govt. of India and Prof. Asutosh Sharma, Secretary, Department of Science and Technology, Ministry of Science and Technology, Govt. of India. Chairperson, BoG Prof. Sadanand Sadashiv Gokhle graced the occasion with his esteemed presence. The achievements made and the new initiatives taken by the institute in last one year were shared by our honorable Director, Prof. Anupam Basu. He observed:

"Safety and security was insured during the lockdown and an unlocked period through strict adherence to the SOP's issued by the Govt. of India from time to time. Online teaching learning process was effectively implemented through various reforms. The faculty members of the institute took active interest in innovations to combat the pandemic. The interest of the students was always ascribed top priority during the crisis. Their financial burden was lessened by the way of reduction in various fees and the installment payment scheme."





662 papers were published and accepted for publication in premier journals and 370 papers were presented in conferences in 2019-2020. 3 patents were granted and 7 more were filed in the last year. 6 faculty members of the institute were included in a list of the top 2% of scientists published by a team of scientists of Stanford University.

In 16th convocation, 663 B. Tech, 220 M. Tech, 18 MBA, 28 MCA, 39 MSc, 6 MSW, and 128 Ph.D. degrees have been awarded.





MATRIBHASA DIWAS

NIT Durgapur observed International Mother Language Day on February 21, 2021.

WOMENS' DAY

National Institute of Technology Durgapur commemorated International Women's Day on March 08, 2021 on online platform. Inauguration took place in the morning with lectures by distinguished dignitaries including Hon'ble Director Sir Prof. Anupam Basu and BoG, Chairperson Prof. Sadanand Gokhale. Prof. Bula Bhadra delivered an illuminating lecture on substantive equality and deliberated on the issue of gender neutrality with the audience. An online celebration with the involvement of female faculty members of the institute was scheduled to be held in the evening and they enthusiastically shared their journey and experience and actively took part in impromptu presentations.





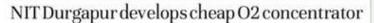
GATI PILOT PROJECT OF DST

The proposal submitted by NIT Durgapur, expressing interest in joining the GATI (Gender Advancement for Transforming Institutions) Pilot Project of Department Of Science and Technology (DST), Govt. of India was accepted on April 26, 2021. Project GATI was one of the three initiatives of DST announced on 28 February 2020, the National Science Day, by the Hon'ble President of India at a celebratory programme dedicated to Women in Science held at Vigyan Bhavan, New Delhi. It aspires to create an enabling environment for equal participation of women in Science, Technology, Engineering, Medicine and Mathematics (STEMM) disciplines at all levels, addressing deep-rooted problems. GATI draws inspiration from the Athena SWAN Gender Equality Charter and accreditation framework operated by Advance HE, UK since 2005. A growing number of universities, science departments and research institutes in UK have voluntarily joined the charter and been recognized for their accomplishments. Recognizing the framework's evidence-based approach to analysis, action and demonstrable impact, several countries have been inspired to join the Athena SWAN collaborative international network and launch similar initiatives.

INDIGENUOS OXYGEN CONCENTRATOR

The Department of Mechanical Engineering, NIT Durgapur under the initiative of Prof. (Dr) Shibendu Shekhar Roy, manufactured an indigenous low-cost Oxygen Concentrator named "Pranayam". It has garnered much appreciation from Dr. Ramesh Pokhriyal Nishank, former Education Minister, MHRD, Govt. of India as well as from prominent institutions all over India. The news of the Oxygen Concentrator was also published in popular regional and national dailies including The Statesman, Ananda Bazar Patrika, Bartaman and Dainik Jagran.

The product has successfully passed the medical trials at Sanjiban Hospital & College, Howrah and has been tendered for mass manufacturing.



DEBAJYOTI CHAKRABORTY

Scientists of National Institute of Technology (NIT) Dangaguar after successfully developing affordable sensitives for artisficial breathing of critical Coxid-19 patients bet year have now developed a low-cost portable oxygen concentrator machine with completely indigenous rechnology.

NIT, Dargagua's Registratist for the Country's Armanith har to the Dargagua's Registratist of the Statesman that as port of the country's Armanith har Blazari (initiative the low-cost oxygen-concentration-machine-has been developed to meet the growing demand of liquidied medical oxygen as its scarcity has been catastrophic.

We have handed over the first such machine 151 PMI to Sanjeevan Hospital in Uhabenta

unoderare patients. The design and development of this prod-uct is being led by professor SS filoy of the mechanical engineering department and his ream and is being fund-ed by the institute. The add-of by the institute. The add-themachine runs on elec-tricity and a wister should be pushed to operate it. Oxygen flow will be regu-

which aucomatically purrys, oxygen to patients. The machine has been a success even in primary health care. There has been a success country as the demand has touched the peak due to increase in number of Covid .15 pateens.

Almostevery day patients are dying due to lack of oxygen both in private and government hospitals. The National Highway Authority (NHAI) has also come forward to set up two oxygen concentrator units in Asansol district hospitaland Durgapue sub-dristonal hospital. Within 15 days these units will be installed and the area has almady been finalised. NHAI project director said.



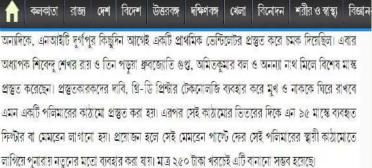
The Statesman Thu, 13 May 2021 https://epaper.thestatesman.com/c/60417622



lated through valves. Threecompanies of Man-galore, Mambai and Kolkara have expressed interest to purchase the know-how of the technology of the low-cost oxy-

gen concentrator machine developed by NIT Dargapur, sources said.

During the first wave of Coxid in the country, NIT Durgapur scientists have suc-cessfully developed the arti-



Director of NIT Durgapur Prof. Anupam Basu and Prof. Roy from Department of Mechanical Engineering jointly delivered "Low-cost online lecture on Portable Oxygen Concentrators" on May 11, 2021 on the occasion of National Technology Day at Science City, Kolkata.

পুরানো সংস্করণ | শিল্প -বাণিজ্ঞ | শিক্ষা-কেরিয়ার | ভ্রমণ | রাশিফল | রঙ্গভূমি | अञ प्राणायम बचाएगा कोरोना मरीजों की जान

आप्त्रण संधारतात पूर्णपुर : कोरोना संप्रमित मरोजी के लिए अंक्सीजन की मांग बढ़ रही है। ऐसे समय में दुर्गापुर के नेशाना इंस्टीट्यूट ऑफ टेबनोलीजी (एनआइटी) के मेंकेनिकला इंजीनियरिंग विधान में सस्ता देखें कंस्ट्रेट्टर तीवार किया है, जिनका नाम प्राणायम दिया गया है, जिनका नाम प्राणायम दिया गया है। वह कंसट्रेटर लोगों के जीवन को बचाने में काप्ते उपयोगी होगा एवं इसका उपयोग भी शुरू कर दिया गया है। हाबड़ा के संजीवनी अस्पताल में इसे लगाया भी गया है। एनआइटी के निज्ञाक ग्री. अनुमा

एमआइटी के निद्धांक ग्री. अनुस्म क्रम् के उत्पाद एमेक्टीकल विष्मा के प्रोफेसर टी. शिबेंट्र डेस्डर राग के नेतृत्व में अंसर्ट्टर बानों का काम अप्तरत मह में यूक्ट हुआ, पहला मीडल परवर्सी माह में बना। उसके बाद व्यवस्थानिक ट्रिक्टिंग से मीडल तैयार किया गर्दा, जो मई माह के प्रथम संपाह में पूरा हुआ। इसमें कोलकाता

रनआइटी में बने कंसट्रेटर के साथ प्रो. शिवेंद्र शेखर राद 👁 जागरण

की इंडस्ट्रीज सुजन क्रिएशन के में उपलब्ध अन्य कंसंट्रेटर से सस्ता ताम, इसको कोमत 30 तजार रुपये आएमी। जबकि बाजार में जो है, उसको कीमत 65-80 हजार रुपये तक है। इसका वजन भी 17

काफा सहायक हाया। जिला प्रशासन समेत विभिन्न संस्वाओं ने इसमे रुचि दिखाई है। फिलहाल हमलोग चालीस प्राणावम कंसंट्रेटर तैवार कर रहे हैं। वहीं बंगलोर, दिल्ली, कर रहे हैं। वहीं बंगलीर, दिल्ली, मुंबई की कंपनियों से खातचीत चल रही है, जिन्हें वह तकनीक दी जाएमी। उन्होंने कहा कि निवालाइट के माध्यम से हवा से नाइट्टीजन के रोककर ऑक्कीका दिया जा रहा है। पांच लॉटर प्रति मिनट फ्लो में इससे 90 फीसर ऑक्सीजन मिलेगा। सिकार्य को बोटीगा जह रखा मा पिळले वर्ष कोरोना बद रता वा तब भराजा के लग्ध में पंछाना हा रहा थी। उसमें ऑक्सीजन की मांग हो रही थी, उसे देखते हुए हमलोगों ने इस दिशा में कदम बदावा एवं हमारे निदेशक प्री. अनुपम बसु ने हमारा उत्साह बदाया।

असनसोल की अन्य खबरों को देखें



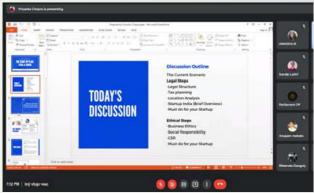
IIIC Activities

The Institute Innovation and Incubation Council (IIIC), NIT Durgapur in association with Entrepreneurship Development Cell (EDC) conducted the following events:

- A Logo Design Competition was held during February 2-6, 2021.
- Ms. Deepali Saini delivered a talk on "How to Plan for a Startup, with special reference to Legal and Ethical Steps". The seminar was conducted on February 28, 2021.
- Dr. S. K. Lahiri was invited as a keynote speaker for the session, "INNOVATION The new ENGINE of the century" on June 25, 2021.
- Ms. Priyanka Chopra delivered a talk on the topic "How to Plan for Startups- Legal and Ethical Steps" and "Knowing IPR's and IP Management" on June 26, 2021.
- Mr. Ankit Tripathi delivered a lecture on the topic "Building an Innovative Product Fit for the Market" in a seminar on June 28, 2021.
- Dr. Shibendu Shekhar Roy delivered a talk on the topic "Prototype/ Process Design and Development: Prototyping", in a seminar conducted on June 30, 2021.









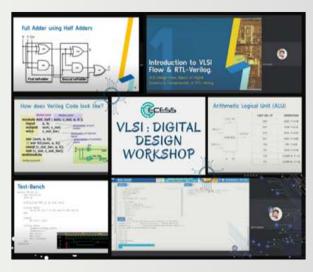


Society Events

Electronics & Communication Engineering Students' Society

- ECESS organized a webinar on 'Placement Talks' on January 26, 2021. The event focused on the placement scenario of NIT Durgapur, much needed skills and preparation strategy with a greater emphasis on the ECE companies. It was conducted by the Training & Placement Representatives for the Batches 21 and 22.
- A two-day workshop was conducted on March 13 & 14, 2021 on Embedded Systems. Basic concepts of sensors, protocols used in embedded systems like I2C, SPI, UART and their applications, modules like temperature and humidity sensor were explained using Arduino Uno as a micro-controller. The simulation was done on TinkerCad. The final stage followed explanation of the project which is real time weather forecasting and displaying on Nokia display with images.
- A workshop on 'VLSI- Digital Design' was organized on April 10&11, 2021. The workshop focused on the working of Digital systems, what VLSI is and how millions of transistors are put together to make an integrated circuit. It also gave the students idea about RTL Verilog, writing Verilog codes properly and to design Combinational and sequential circuits. The participants were asked to design an Arithmetic Logic Unit (ALU) in an online simulator at the end of the workshop. The workshop was intended to make the students familiar with the concept of VLSI Designs and RTL Verilog.



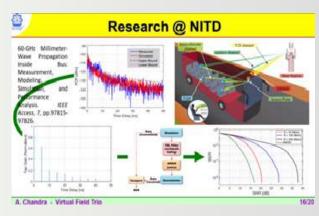


Institute of Electrical and Electronics Engineers Students' Branch

▶ A Virtual International Field Trip was conducted by IEEE SB NIT Durgapur on March 13, 2021 in collaboration with the University of British Columbia, Canada. The trip served as a platform for highlighting the numerous technological accomplishments of the Institute in the recent years and provided a scope for exchange of scientific ideas between the two institutes.



▶ A webinar was conducted on the possible career options after B.Tech/B.E. on June 6, 2021. The lecture was delivered by Prof. Baseet Alam, Motivational Speaker and Senior Faculty Member of ACE Engineering Academy, who had secured an All-India Rank of 7 in OPGC (PSU). The webinar discussed the importance of an excellent GATE score for pursuing post-graduate programs at reputed institutes and highlighted the numerous career opportunities that GATE opens up.

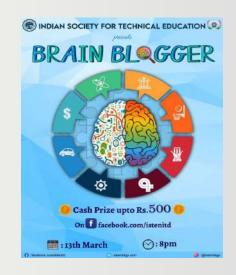


- Internship Bootcamp 2.0 was conducted on February 15, 2021 and it witnessed a participation of over 170. The event took place over multiple sessions which involved discussing the numerous internship scopes in reputed institutes across the world, the art of drafting perfect professional mails and basics of writing an SOP, and finally an interactive session where the audience got a chance to learn about the intricacies of these prestigious internships. The talks were delivered by our alumni, some of whom were Prateekee Chatterjee, Monsij Biswal, Rohan Choudhury, and Subhayan Akhuli.
- MATLAB Mastery 2.0, a hands-on Webinar on learning and solving problems in MATLAB, was held from April 10-17, 2021.

Webinar on Career Opportunities after B.Tech/B.E. was held on June 6, 2021.

Indian Society Technical Education Students' Chapter

- BRAIN BLOGGER, March 13, 2021
- ISTE NIT Durgapur organised "BRAIN BLOGGER", one of it's kind exciting event having two rounds for the participants. The event was conducted over Facebook page. It was a fun event with pictures all around and cash prize of Rs. 500 and had high participation of over 300 participants. It was held on June 6, 2021.



Society of Automotive Engineers Collegiate Chapter

- QFIESTA, February 6, 2021
- Live Webinar on Current trends and future scope in the field of aeronautics and aerospace in India, April 22, 2021

■ The team conducted a BAJA workshop on March 9, 2021, in the context of various departments of vehicle dynamics, namely: Powertrain, Rollcage, Suspension, Steering and Braking to give the students their kick-start in the domain of automobile engineering. In depth discussions were done about the above mentioned fields by the competent team members.



SPIC MACAY NIT Durgapur Chapter

- Rendezvous, January 9, 2021
- Raag Bhairav, January 11, 2021
- Interaction with Vidhushi Suranjana Bose, January 14, 2021
- Abhivyakti, January 15, 2021
- Performance of the mellifluous 'Bihag', January 18, 2021
- Matribhasha Diwas, February 21, 2021
- Odissi dance based on Durga Vandana, April 20, 2021
- Dance performance on the celebrated songs of the world-renowned poet and author Rabindranath Tagore, May 9, 2021
- ▶ Performance on the queen of the Mountain Melodies, Raga Pahadi, June 27, 2021
- Anubhav, June 21-27, 2021







Aarohan: Annual Techno-Management Fest

The 19th edition of the Annual Techno-Management Fest of National Institute of Technology Durgapur Aarohan, the second-largest of its kind in Eastern India and also the first ever virtual edition, was organized by Team Aavishkar during April 1-4, 2021. It witnessed more than 50 events, talks from eminent speakers like Vipin Sharma, Captain Raghu, Miss Archie Singh, Virendra Sharma, and many others. Moreover, there were a series of cultural events, Tech Mela, the annual science exhibition, and the WDCT corner showcasing artistic and photographic endeavours.



The 4-day event included workshops, hackathons, musical and dance performances by the Music and Dance clubs respectively and some performances by SPICMACAY.

The fest was held over a virtual platform called Airmeet. Popular brands like GrabOn, GeeksforGeeks, Prepbytes, Indian Oil Corporation Limited, Work@Tech were the sponsors among others. Comedy nights were organised where comedians Rajat Sood and Devesh Dixit gave a hearty dose of laughter.

Aarohan 2021 proved to be a great culmination and perfect balance of fun events, motivation talks, art and technology. With a massive participation from all disciplines and even from top colleges in India, this edition of the fest was a grand success.



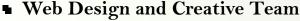




Club Events

Centre for Cognitive Activities

- **Core Cell**
 - → Stock Pro Workshop, March 20, 2021
- **■** E-Cell
 - → Youth Parliament, January 24, 2021
 - → Entrepedia, June 20, 2021
- **■** Research and Development Cell
 - → Scale-Up, January 21-28, 2021
- Robo Cell
 - → Escaparate
 - → Image Processing Workshop, January 16-17, 2021



- → Maidan E Creative, January 26, 2021 February 2, 2021
- → Trivio, April 16-17, 2021
- → Gaming Tournament, May 29-30, 2021

Debating Society

- Fictionary, February 27-28, 2021
- The Asian Parliamentary Debate, March 19-21, 2021
- Take DeBait 3.0, April 24, 2021

Entrepreneurship Development Cell

- Bizcup 3.0, January 16-18, 2021
- E-Summit '21
 - → E-talks, April 2-4, 2021
 - → Pitchfest
 - → Internship Fair
 - → Quiz-A-Preneur, March 31- April 2, 2021
 - → Rannit-E, April 2, 2021
 - → Auction Arcadia, April 3, 2021
 - → Corporate Espionage
 - → Ring of Rivals
 - → Founders Forum









GNU Linux Users' Group

- Open Source Starter Pack, January 14-16, 2021
- Mentorship Program, January 20-22, 2021
- Capture the Flag, February 2-4, 2021
- Junior Code Cracker, February 15, 2021
- GSoC Heat 5.0 BarCamp, February 2, 2021
- Hack.Me, March 13-14, 2021
- Workshop on System Design, May 15-16, 2021

Literary Circle

- MUN Workshop, January 19, 2021
- NITMUN, January 30-31, 2021
- Zodiac, February 5, 2021
- Open Mic, February 19, 2021
- Literati, March 30, 2021
- Convincio, April 3, 2021
- Star Talk, April 8-10, 2021
- Anarchades (Wild Card Event), April 9, 2021
- Déjà vu
- **■** Darkest White

Maths N' Tech Club

- Eventually 3.0, January 13, 2021
- **■** Techorbis 2.0, May 30, 2021





Prakriti Club

- Safarnama, March 14, 2021
- SnapSplash 2.0, March 28, 2021- April 3, 2021

QuizInc

- Erudite, January 23, 2021
- Gone Viral Quiz, February 15-16, 2021
- The Screencast Quiz, March 14, 2021
- Quizzitch Cup '21, March 15, 2021
 - → Biztech Quiz, April 9, 2021
 - → Chakravyuh, April 9, 2021
 - → Nostalgia Quiz, April 9, 2021
 - → Sports Quiz, April 10, 2021
 - → Mela Quiz, April 10, 2021
- 2IIM The MBA journey and How to prepare for CAT, April 3, 2021
- Qonversation, April 9-11, 2021
- Financial Planning for Young Professionals, April 17, 2021
- AMUL Tropical Quiz, June 13, 2021
- LA MINIMA, June 20, 2021
- Google Doodle Quiz, June 27, 2021
- **■** The Retro, July 4, 2021

Radio Nitroz

- KHOL-E-DIL, January 9, 2021
- VOICE IT OUT, February 3, 2021
- College KeTashanbaaz Season-6
- RN Podcast, April 1, 2021
- Terribly NITroz Tales

RECursion

- ► C++ classes, January 13 April 10, 2021
- RECode, February 1 March 22, 2021
- RECap, April 9, 2021
- Ask Me Anything, May 8, 2021
- Alohomora, June 11, 2021









Strokes

- Snapshade, March 27 April 6, 2021
- Kalakriti, April 17-18, 2021
- Lensemble 2.0 April 30, May 2, 2021
- **■** Chitrakala, June 20-28, 2021









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