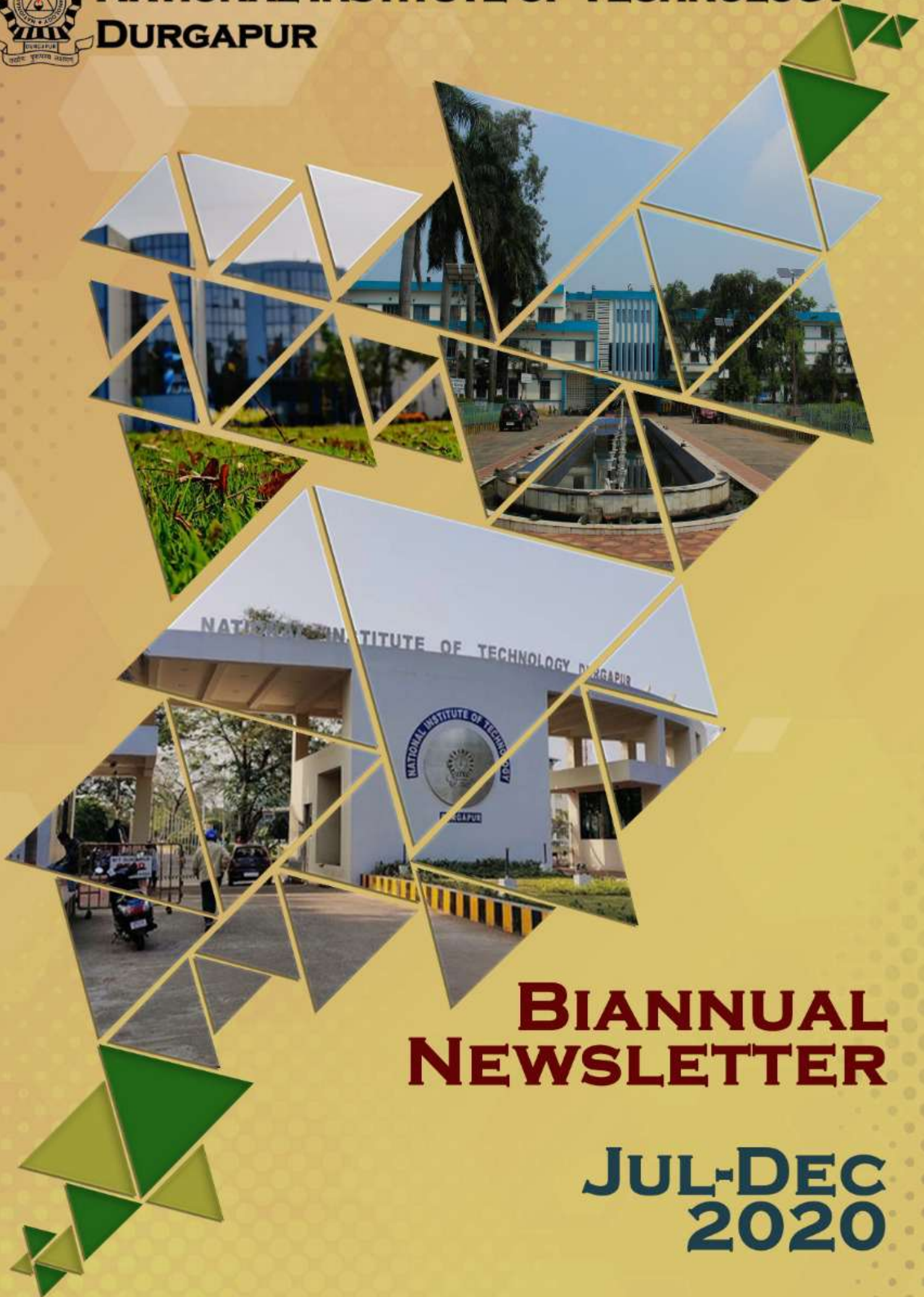


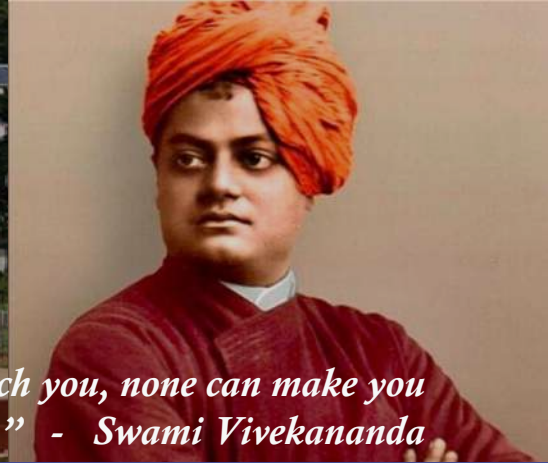
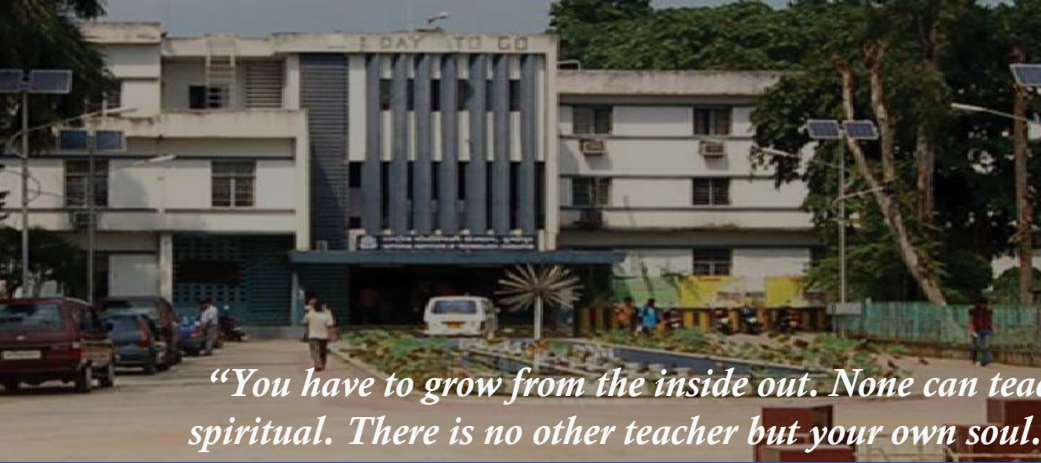


**NATIONAL INSTITUTE OF TECHNOLOGY
DURGAPUR**



**BIANNUAL
NEWSLETTER**

**JUL-DEC
2020**



“You have to grow from the inside out. None can teach you, none can make you spiritual. There is no other teacher but your own soul.” - Swami Vivekananda



Prof. Anupam Basu, Director, NIT Durgapur

FROM THE DIRECTOR'S DESK

The whole world is still in the clutches of Pandemic and fighting desperately to challenge the handicaps. India is no exception, and we all are innovating mechanisms to cope with the situation to come out successfully. Looking forward with optimism, dedication, sincerity, I feel delighted to note that our faculty members and students have kept the NITD lamp illuminated with multifarious activities in multi-directional ways. The institute kept its academic activities unabated amidst this critical phase, by organizing several seminars, invited talk, industry- institute interaction, outreach activities, sponsored & consultancy projects, collaborative activities etc. Considering the prevalent situation, I must note with gratitude for the inspirational lecture by Revered Swami Ishatmananda ji Maharaj of Vivekananda Vedanta Society, Chicago, USA, held in August 29, 2020.

Apart from the psychological boost, we are geared to battle against the odds by adhering to GOI SOP and institutional and individual measures.



SEMINARS AND INVITED TALKS ORGANIZED

- An inspirational webinar on ‘How to Prepare Yourself for a Great Career’ was delivered on July 14, 2020 by Dr. Sandip Kumar Lahiri, Department of Chemical Engineering, NIT Durgapur, and organized by Dr. Sudipta Mondal, Department of Biotechnology.

Department of Biotechnology
NIT Durgapur
presents

Webinar On
How to Prepare Yourself for Great Career

Speaker
Dr. Sandip Kumar Lahiri
Department of Chemical Engineering
NIT Durgapur

Webinar Topics:

- ▶ Practical guidance to make yourself ready for job
- ▶ What to do now for career enhancement
- ▶ How to make great CV
- ▶ How to prepare yourself for job interview

Date: 14th July, 2020 **Time:** 11:00 am
Join via MS Teams

Organized By
Dr. Sudipta Mondal

Note: Students are advised to attend the webinar

- An inspirational Webinar Series on “2D Materials and Devices” delivered by Dr. Manish Chhowalla, Goldsmiths' Professor, Department of Materials Science & Metallurgy, University of Cambridge, UK; Dr. Goki Ida, Associate Professor, Department of Physics, National University of Singapore, Singapore; and Dr. Deep Jariwala, Assistant Professor, Device Research & Engineering Laboratory, University of Pennsylvania, USA. It was organized during July 15-16, 2020 by Prof. Amit K. Chakraborty, Professor in-Charge, Centre of Excellence in Advanced Materials and Dr. Abhijit Ghosh, Department of Physics. Over 150 delegates from across the nation and abroad attended the webinar.

National Institute of Technology, Durgapur
is organising a Webinar Series on
"2D Materials and Devices"

July 15-16, 2020

Distinguished Speakers:

L1: Dr. Manish Chhowalla, Goldsmiths' Professor, Department of Materials Science & Metallurgy, University of Cambridge, UK (h-index 96)
<https://www.metu.cam.ac.uk/people/chhowalla>

L2: Dr. Goki Ida, Associate Professor, Department of Physics & Chemistry, National University of Singapore, Singapore (h-index 59)
<https://www.physics.nus.edu.sg/staff/gokida.html>

L3: Dr. Deep Jariwala, Assistant Professor, Device Research & Engineering Laboratory, University of Pennsylvania, USA (h-index 33)
<https://jariwala.laas.upenn.edu/>

Convener: Prof. Amit K. Chakraborty, Professor-in-Charge, Centre of Excellence in Advanced Materials, & Professor, Dept. of Physics, NIT Durgapur
Contact: ceam@nitdgp.ac.in, +91 9434788137
Co-convener: Dr. Abhijit Ghosh, Asst. Prof., Dept. of Physics

Participation is FREE to all using the following links:
L1 (15.07.2020 at 4 pm): meet.google.com/non-garu-uba
L2 (16.07.2020 at 4 pm): meet.google.com/sup-afj-uzax
L3 (16.07.2020 at 6 pm): meet.google.com/olhb-brud-grh
Pre-registration link: <https://forms.gle/3uq-4p21hJH4676>

NI: Certificates will be issued to candidates who will pre-register via the above link subject to verification of attendance.
Theme: Two dimensional materials, such as transition metal dichalcogenides (TMD), boron nitride have attracted large research interest in recent years due to their numerous exciting properties suitable for wide range of applications. This Webinar series is aimed at providing a tutorial on fundamental understanding of what they are, how their properties change from bulk to two dimensions as well as their atomic and electronic structures. The webinar will also discuss their applications in supercapacitors, catalysis and electronics. For further details, please refer to the attached abstracts and brief biographies or contact the convener.

- An invited talk by Mr. Jaydeep Chatterjee, Senior Application Specialist, Du Pont, Thailand on ‘Sustainable Beer Brewing Post Covid-19 (with the help of Modern Biotech-

nology)’ was organized on July 20, 2020 by Dr. Debojyoti De, Department of Biotechnology.

Sustainable Beer Brewing post COVID-19
(with the help of Modern Biotechnology)

Jaydeep Chatterjee
Senior Application Specialist
DuPont

Nutrition & Biosciences

DUPONT

- An inspirational webinar on ‘How to be Good at Failing’ by Dr. Shourya Sanyal, CEO, Think Biosolution Limited, NY, 14604, USA, was organized on August 4, 2020 by Dr. Nibedita Mahata, Department of Biotechnology.

DEPARTMENT OF BIOTECHNOLOGY
National Institute of Technology Durgapur
presents
Webinar on
"How to be good at failing"
By
Dr. Shourya Sanyal, CEO, Think Biosolution Limited, NY 14604, USA

August 4th, 2020
02:30 p.m. (IST)
All are cordially invited

Organized by
Dr. Nibedita Mahata
Assistant Professor, NIT Durgapur

- An inspirational webinar on ‘Amalgamation of Technology & Innovation of Sustainable Development’ by Nikhil Gampa, Co-Founder, Green Wave & Kanika Satnaliwala, Executive Director/Chief Strategy Officer, The LYNQ Group, was organized on August 1, 2020 by Evolvere, Department of Biotechnology.

In association with
Department of Biotechnology
Presents
LIVE WEBINAR
Amalgamation of Technology & Innovation for Sustainable Development

Nikhil Gampa
Co-Founder
Green Wave

Kanika Satnaliwala
Executive Director /
Chief Strategy Officer
The LYNQ Group

1 August 2020
4 PM onwards

facebook.com/evolvere.nitdgp

- An alumnus talk by Dr. Guru Vignesh (B.Tech Biotechnology 2013) was organized on August 10, 2020 by Dr. Subhankar Roy-Barman and Prof. Surabhi Chaudhuri, Department of Biotechnology. Guru is based at the John Innes Centre (JIC), Norwich, UK – a world-leading plant and microbial science research institute. Guru was recently recognized in the Forbes 30 Under 30 list for his pioneering research on how plants and microbes have evolved to interact with each other.



*Dr. Guru Vignesh
Forbes 30 under 30*

- An inspiration webinar on ‘Applications on Genomics and Single Cell Bioinformatics in Immuno-oncology’ by Sombeet Sahu, Principal Scientist, Bioinformatics, Nkarta Therapeutics, Inc, was organized on August 18, 2020 by Dr. Amita Barik, Department of Biotechnology.



- An invited alumnus talk by Mr. Partivila Jagan Mohan on ‘Career Planning in Biotechnology’ was organized on August 23, 2020 by Dr. Sougata Saha and Prof. Surabhi Chaudhuri, Department of Biotechnology. Partivila is a Head, R & D and Operations Suri Agro Fresh Limited, Krishna, Andhra Pradesh, India.



- An inspirational webinar on ‘Covid-19, from Research to Practice’ by Dr. Swapan Kr. Ghosh, Associate Professor, Post Graduate Department of Botany, Ramakrishna Mission Vivekananda Centenary College, Rahara, was organized on August 27, 2020 by Evolvere, Department of Biotechnology.



- An inspirational talk by Revered Swami Ishatmananda-ji Maharaj on ‘Hold on yet a while; braveheart’ was organized on August 29, 2020 by Dr. Subhankar Roy-Barman and Prof. Surabhi Chaudhuri, Department of Biotechnology. Revered Swami Ishatmananda Ji Maharaj is President in-Charge, Vivekananda Vedanta Society of Chicago, USA.



- An invited talk by Dr. Indranil Adhya (B.Tech. Biotechnology 2013) was organized on September 5, 2020 by Dr. Subhankar Roy-Barman and Prof. Surabhi Chaudhuri, Department of Biotechnology. Indranil is a R&D Scientist at PMC Isochem, Vert Le Petit, France.



- Inauguration of the Students' affiliated chapter of Indian Institute of Metals (IIM) was carried out by Prof. A. Gokhle (President of IIM) in the department of MME, NIT Durgapur on September 19, 2020. It was followed by technical talk by Prof. K Chattopaddhaya (Ex. President of IIM & Alumni of NIT Durgapur) on the topic 'Aluminum Superalloys for High-strength High-temperature Applications'. Dr. A.K. Mandal, Faculty in-charge of IIM Students' Chapter, NIT Durgapur acted as the coordinator of that program.



- An inspirational talk by Dr. Risha Chakraborty, Senior Research Investigator, Syngene International Limited, on the topic named 'Biopharma Industry: Opportunity and Challenges' was organized on September 26, 2020 by Dr. Oindrilla Mukherjee and Prof. Surabhi Chaudhuri, Department of Biotechnology.



- Five Webinar series have been jointly conducted by the Department of MME, NIT Durgapur and IIM Kolkata and Dr. A.K. Mandal, Faculty in-charge of IIM Students' Chapter, NIT Durgapur acted as the coordinator of those programmes.

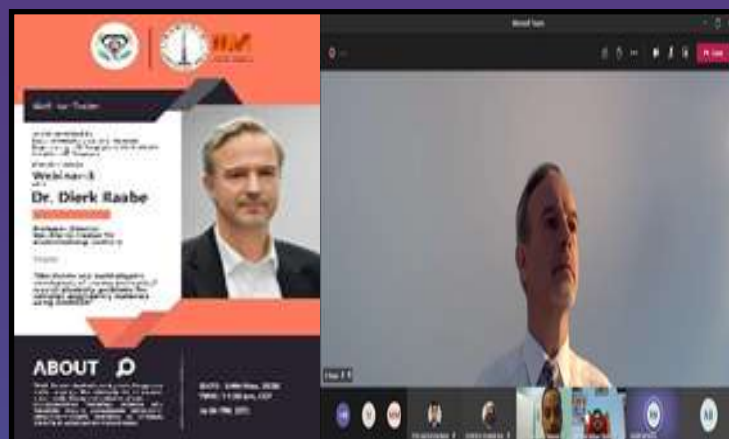
- First Lecture was on 'Tough High-carbon Untempered Martensite' by Prof. H.K.D.H. Bhadeshia, Cambridge University, UK on November 03, 2020.

- Second Lecture was on 'Accelerated development of high performance magnetic materials for emerging technologies' by Dr. Varun Chaudhary, Nanyang Technological University, Singapore on November 06, 2020.

- Third Lecture on 'Multiscale and Multi-physics Simulations of Chemo-mechanical Crystal Plasticity Problems for Complex Engineering Materials using DAMASK' by Prof.

Dierk Raabe, Director, Max-Planck-Institut für Eisenforschung was held on November 24, 2020.

- Fourth Lecture on 'Processing, Properties and Applications of Different Classes of Titanium Alloys' by Dr. Amit Bhattacharjee, DMRL was held on December 19, 2020.



- An IEEE webinar on “Unlock Your Research Potential with IEEE Xplore” was organized in collaboration with Library-National Institute of Technology Durgapur on December 19, 2020. Mr. Jitendra Kumar was the convener of the programme.



INDUSTRY - INSTITUTE INTERACTIONS

- Online Lecture under Industry-Industry-Interaction scheme was held on the topic “Sintering Process and Technology under Indian Conditions” by Mr. Rajib Kumar Bhattacharya, Senior General Manager, MECON Limited on September 13, 2020 through MS Teams platform. Dr. A.K. Mandal of MME department was the Coordinator of that program.



- One day seminar was organized on September 19, 2020 by Dr. Subhankar Roy-Barman and Prof. Surabhi Chaudhuri, Department of Biotechnology. Dr. Nitin Damle, Sr. Vice President & Chief Innovation Officer, Sun Pharma Advanced Research Company delivered lecture in the programme.



CONFERENCE ORGANIZED

- An international conference named “Current Advances in Rice Blast Research” (CARBR 2020) was organized during December 1-5, 2020 by Dr. Subhankar Roy-Barman and Prof. Surabhi Chaudhuri, Department of Biotechnology. The resource personnel were, Prof. Nicholas J. Talbot, Executive Director, of The Sainsbury Laboratory in Norwich Research Park, United Kingdom and Dr. Yong-Hwan Lee, Professor/Director of Department of Agricultural, Biotechnology Center for Fungal Genetic Resources in Seoul National University, South Korea.



- International webinar on Global Steel Industry Sustainability (GSIS-2020) was organised by Dept. of MME, NIT Durgapur in association with Indian Institute of Metals, Kolkata on 02.08.2020. Scientist from CSIRO, Australia and Academicians from IIT(BHU), were delivered their precious talk. More than 750 participants attended through MS Team, Facebook and Youtube platform. Dr. A.K. Mandal of MME department was the Principle Coordinator. Dr. Satadal Gorai was the co-coordinator.



INVITED TALKS DELIVERED

- Dr. Gautam Bandyopadhyay delivered a lecture on ‘Statistical Analysis using R and R Studio’ organized by Department of Management Studies, Bodoland University on July 2, 2020.
- Dr. Anupam De delivered a lecture on ‘Case Study of Statistical Analysis Using Primary Data’ in a 5-day Online Workshop on ‘Statistical Analysis using R and R Studio’, organized by the Department of Management Studies, Bodoland University, Assam, on July 03, 2020.
- Dr. Sutanuka Banerjee delivered an invited talk on the topic “Solidarity for Gender Equality: The Way Forward” in a TEQIP-III sponsored webinar at Dumka Engineering College on July 18, 2020.
- Dr. Amlan Ghosh delivered a lecture on ‘Post Covid19 strategy to survive the Tourism industry: Indian Perspective’, in two-day International e-Symposium 2020, organized by the Department of Management, University of North Bengal on July 19, 2020.
- Dr. Amlan Ghosh delivered a lecture on ‘Case Writing’ in 5-day FDP (Case writing workshop) at Amity University, Kolkata, on July 21, 2020.
- Dr. Arup Kumar Mandal delivered an invited talk on “Application of plasma arc melting process for extraction and purification of Metals” on July 25, 2020 in Three day Webinar on “Secondary Melting and Processing Technologies” organized by the Department of Metallurgical & Materials Technology, Mahatma Gandhi Institute of Technology, (MGIT), Hyderabad during July 23-25, 2020.
- Dr. Aparesh Datta delivered a lecture on ‘Research Trends in Science & Technology’ in a Faculty Development Programme, organized by Institute of

Engineering & Management on July 30, 2020.

- Dr. Sutanuka Banerjee delivered an invited talk on the topic “Revisioning Women Empowerment: Perspectives and Prospects” in a web lecture series, organized by Gobindaprasad Mahavidyalaya on August 02, 2020.
- Dr. Aparesh Datta delivered a lecture on ‘Energy & Sustainability’ in the webinar organized by Department of Mechanical Engineering, NIT Agartala on August 3, 2020.
- Dr. Gautam Bandyopadhyay delivered a lecture in a five-days Faculty Development Program (FDP) on ‘Advanced Research Techniques’ organized by Maulana Abul Kalam Azad University of Technology, WB, on August 8, 9, 16, 22 and 23, 2020.
- Dr. Aniruddha Bhattacharya delivered a lecture in a Faculty Development Programme on ‘Aspects to consider for allocation of Electric Vehicle charging stations in an electrical distribution network’, organized by the Dept of Electrical Engineering, Haldia Institute of Technology, Haldia, on August 15, 2020.
- Prof. Subrata Banerjee delivered lectures in online Faculty development Program on ‘Technological Advancements for Electric Vehicle Application at GNTU, Kolkata, during August 17 - 21, 2020.
- Dr. Gautam Bandyopadhyay delivered a lecture in an online Research Methodology Workshop cum FDP on Introduction to Cross-Sectional Data Analysis using SPSS and JAMOVI, in joint collaboration with the Department of Commerce, University of Calcutta and The Institute of Cost accountants of India, during August 17-23, 2020.
- Dr. Gautam Bandyopadhyay delivered a lecture on

'Multi- Criteria Decision-Making Techniques and Applications', at Calcutta Business School, Kolkata, during September 1-2, 2020.

- Prof. Anupam Basu delivered an invited lecture on 'Artificial Intelligence and Ethics' on the occasion of Engineer's Day at Indian National Academy of Engineering on September 15, 2020.

भारतीय राष्ट्रीय अभियांत्रिकी अकादमी
Indian National Academy of Engineering

INA KOLKATA CHAPTER
Engineers' Day Lecture
by
Prof. Anupam Basu
Director, NIT Durgapur

Artificial Intelligence & Ethics

Every coin has two sides. The ever increasing presence of Artificial Intelligence in all walks of life, while making life "smarter", is also posing some issues, which needs to be realized. Some of these issues are rooted in the technology itself. The proposed talk will try to highlight some of these issues and leave open the solutions to the wisdom of the audience.

Prof. Basu, is the Director of NIT, Durgapur and is Professor-on-lien, Dept. of Computer Sc. & Engg., IIT Kharagpur. He is an Alexander von Humboldt Fellow and a Fellow of the Indian National Academy of Engineering. The awards won by him include the State Award for the Best Contribution to the Cause of Empowerment of the Disabled (2014), MPHASIS Universal Design Award 2011, for contributions in design for the disabled, by National Council for Promotion of Employment of Disabled Persons, India, the National Award for the Best Technology Innovation for the Physically Disabled (2007) and the Da-Vinci Award 2004 from the Multiple Sclerosis Society of Michigan, for the best technological innovation for the physically challenged. He has also taught at the University of California at Irvine and at the University of Guelph, Ontario, Canada. He has acted as the Chairperson of the AICTE Curriculum revision committee for Computer Science & Engg. He has served in several committees of the Govt. of India and those in the State of WB.

15 September 2020 • Tuesday • 7:00 pm
Link: <https://meet.google.com/cjp-ftp-joj> • no pre-registration required • open to all participants

- Dr. Apurba Layek delivered lectures on 'Solar Thermal Energy and It's Applications' and 'Artificial Roughness- A Potential Method for Performance Enhancement of Solar Air Heater' in Faculty development programme, 'Solar Energy Utilization-2020', organized by the Department of Mechanical Engineering, National Institute of Technology Patna, Patna, on September 15 and 16, 2020.

- Prof. Pathik Kumbhakar delivered a talk on 'Nanoscience and its applications' as an expert speaker of the TEQIP-III sponsored webinar on 'Nano Science & Its Applications' jointly organized by The Institution of Engineers (India), Dept. of Basic Science and Humanities, Chaibasa Engineering College, Chaibasa, on September 17, 2020.

- Dr. Ashish Bhattacharjee delivered a lecture on 'STAT-dependent expression and function of Monoamine Oxidase A (MAO-A) in IL-13 activated A549 cells' in the One-Day State Level Webinar on 'Anticancer Drug Design and Drug Development and Cancer Biology', organized by Dept. of Chemistry, Krishnagar Govt. College, Krishnagar, Nadia, West Bengal, on September 18, 2020.

KRISHNAGAR GOVT. COLLEGE
(NAAC Accredited "A" Grade Institution)
STATE LEVEL WEBINAR 2020

Certificate of appreciation

This is to certify that **Dr. Ashish Bhattacharjee**, Associate Professor, Department of Bio-Technology, National Institute of Technology, Durgapur has delivered a lecture on "STAT-dependent expression and function of Monoamine Oxidase A (MAO-A) in IL-13 activated A549 cells" in the One-Day State Level Webinar on "ANTICANCER DRUG DESIGN & DRUG DEVELOPMENT AND CANCER BIOLOGY" organized by Dept. of Chemistry, Krishnagar Govt. College, Krishnagar, Nadia, West Bengal - 741101 on 18th September, 2020 from 11:00 AM to 01:00 PM.

Dr. Pritha Mandal, Convener, Krishnagar Govt. College
Dr. Rubina Rahman, Convener, Krishnagar Govt. College
Dr. Sobhan Niyogi, Officer-in-Charge, Krishnagar Govt. College

- Dr. Aniruddha Bhattacharya delivered a lecture in a Short Term Course 'Opportunities and Challenges in New Power Distribution Paradigm (OCNPDP)', organized by the Dept of Electrical Engineering, National Institute of Technology, Silchar, on September 20, 2020.

- Prof. Subrata Banerjee delivered lectures in TEQIP-III sponsored online short-term course and faculty development programme on 'Power Electronics and Renewable Energy Integration in Smartgrid, Electric Vehicle (Pereisgev 2020)' on September 23- 27, 2020 at NIT Rourkela.

- Dr. Sutanuka Banerjee delivered an invited talk on the topic "Gender Concerns: Problems and Principles" in a webinar organized by Nabadwip Vidyasagar College on September 24, 2020.

Nabadwip Vidyasagar College
NAAC Accredited, Affiliated to University of Kalyani
Nabadwip, Nadia, 741302

Cell for Prevention of Sexual Harassment, Women's Studies Cell, Grievance Redressal Cell, Legal Club for Legal Consultancy & IOAC

Presented
Two Day State Webtalk on "Gender Oppression and Legal Issues" on Google Meet

Registration Link: <https://forms.gle/7R8aU5omNkUe3E>
Last Date of Registration: 22nd September, 2020 (Midnight)
Registration Fee: Free

Date: 23rd & 24th September, 2020
Time: 3p.m. - 8.30p.m.

Eminent Resource Persons/ Speakers

Dr. Kavita Parajuli
Professor
Dept. of Comparative Literature
Jadavpur University
Keynote Speaker

Smt. Anchita Ghatak (Women's Rights Activist)
Director, Parichal
Title of the Presentation: "Lockdown and Women Domestic Workers"

Atty. Abhijit Datta
Howrah Judges Court
Title of the Presentation: "Domestic Violence and Legal Remedies"

Dr. Sutanuka Banerjee
Associate Professor
Dept. of Humanities and Social Sciences
National Institute of Technology, Durgapur
Title of the Presentation: "Gender Concerns: Problems and Principles"

◆ E-Certificates will be provided after submission of Feedback Form only.
◆ Webinar Link will be provided before programme through WhatsApp group.
◆ The Link of WhatsApp group is attached with the last section of the Registration Form.

Organizing Members

Dr. Tapati Thakur
Prof. Kalyani Roy
Prof. Debashis Das
Prof. Sandhya Chatterjee
Dr. Chandrima Basu
Dr. Basakshi Barmah
Dr. Swati Saha (Datta)
Dr. Sitapoo Saha (Mitra)
Prof. Sharmila Das

Dr. Sucharita Chatterjee
Prof. Rupen Mondal
Dr. Soma Saha Doley
Prof. Sanjit Mitra
Prof. Rinu Mohanta
Smt. Anita Roy
Dr. Bhaskar Chatterjee
(Co-ordinator, IOAC)

Patron
Sri Binan Krishna Saha
President, Governing Body, Nabadwip Vidyasagar College

Chairperson
Dr. Swapan Kumar Roy
Principal, Nabadwip Vidyasagar College

Co-ordinator
Dr. Sitapoo Saha Mitra, Convener & Co-ordinator, Women's Studies Cell
Prof. Sanjit Mitra, Convener & Co-ordinator, Legal Club for Legal Consultancy

- Dr. Monidipa Ghosh delivered a lecture on 'The world of Biosensors and its applications', organized by The Advent Biological Society, on October 16, 2020.

The Advent Biological Society
TABS presents BioAdvanced 11.0

Topic - The World of Biosensors and its Applications

LIVE

16th October
Friday 7pm IST

Dr. Monidipa Ghosh
Associate Professor
Department of Biotechnology
NIT Durgapur

- Dr. Amita Barik delivered a lecture on 'Intrinsic Disordered Proteins (IDPs) and their prediction softwares' on 3-day online training program on 'Computational Tools used in Life Science Research' organized by Department of Bioinformatics, University of North Bengal during October 09-11, 2020.

**3 days online training program on
"Computational Tools
Used in Life Science Research"**
Date: 9th October – 11th October 2020

Organised by
**Department of Bioinformatics
University of North Bengal**

Who can attend?
PG students, research scholars and
faculties of life science background

Online platform:
Google Meet

FREE REGISTRATION
Registration link
Last date of registration: 7th Oct. 2020

Convenor: Dr. Subarna Thakur
Joint Convenor: Chiranjib Sarkar

Invited speakers

Dr. Arun Panda Post Doc. Research Fellow, Dept. of Biomedical Engineering, IIT Bombay, Mumbai. Topic: Reconstruction of ancestral character states from phylogenetic trees	09/10/2020 Time: 4.00 to 5.30 pm	
Dr. Anil Sarkar Assistant Professor, Dept. of Bioinformatics NBU, Dooberga Topic: Intrinsic Protein structure prediction	10/10/2020 Time: 3.30 to 4.30 pm	
Dr. Achal Lama Scientist (ICMR, IISIRI, New Delhi) Topic: Use of R in Biological data analysis	11/10/2020 Time: 3.30 to 4.30 pm	
Dr. Anita Barik Assistant Professor, Dept. of Biotechnology NIT, Durgam Topic: Intrinsic Disordered Proteins (IDPs) and their prediction softwares	10/10/2020 Time: 4.30 to 5.30 pm	
Rahul Banerjee Scientist ICMR, IISIRI, New Delhi Topic: Analytical and graphical presentation of Biological data using computational tools	11/10/2020 Time: 4.30 to 5.30 pm	

- Dr. Gautam Bandyopadhyay delivered an online lecture on 'Big Data Analytics using Soft Computing Tools' organized by the Department of Information Technology MCKV Institute of Engineering, Liluah, WB, India on October 10, 2020.
- Dr. Monidipa Ghosh delivered a lecture on 'Inflammation and the role of Neutrophils in Innate response', organized by The Federation of Immunological Societies of Asia-Oceania (FIMSA) and Indian Immunology Society on October 8-10, 2020.

FIMSA Immunology Course-2020
A Virtual School: From Basic to Advanced Immunology
8th-10th October 2020

To be organized under the aegis of
Indian Immunology Society

1st Announcement

Advanced Immunology teaching course to update the advancements in immunology, being organized under the aegis of Federation of Immunological Societies of Asia-Oceania and Indian Immunology Society. The program faculty is chosen from the wide pool of world renowned experts from India and abroad. The dynamic nature of the program structure will enable participants to receive up to the minute information on new research and clinical practice parameters in the field of Immunology.

Course Highlights
Allergy and Autoimmune Diseases
Innate and adaptive Immunity
Cancer and Immunotherapy

Registration:
Online Registration @ www.fimsaimmunologycourse-2020.org

We look forward to your active participation.

Course Coordinators: Suniti K Arora, President-Indian Immunology Society
Amit Awasthi, Secretary-Indian Immunology Society

Course Secretariat:
Molecular Immunology Lab., Department of Immunopathology, PIMER, Chandigarh, India.
Email: icmr@pimer.com; fimsaimmunology@chdigmil.com
Ph: +91-172-2755192, 2755213, +91-7687008192; FAX: +91-172-274401
Other links: www.pimer.edu.in; www.indianimmunology.org; www.fimsa.org



- Prof. Pathik Kumbhakar delivered a talk on 'Laser and its Societal Applications' as an esteemed speaker of the webinar on 'Laser and its Societal Applications' organized by Dept. of Physics, Vivekananda College, Thakurpukur, Kolkata-63, on November 6, 2020.

- Dr. S. Sahoo delivered an invited talk on 'Fractional Quantum Hall effect in graphene' in an online workshop titled 'Advanced Nanomaterials & Their Applications' organized by NIT Manipur and held during November 23-27, 2020.

- Dr. Arjyayoti Goswami delivered a lecture on 'Introduction to Micro Nano Manufacturing' in a workshop, AMMPS 2020, organized by the Dept of Mechanical Engineering, NIT Hamirpur, on November 24, 2020.

- Dr. Gautam Bandyopadhyay delivered an online lecture on 'Advanced Techniques and Tools in Social Science Research' organized by the Dept. of Management and Business Administration, Aliah University, Kolkata on November 29, 2020.

- Dr. Gautam Bandyopadhyay delivered an online lecture on 'Predictive Modeling' organized by the Dept. of Management and Business Administration, Brainware University, Kolkata on December 6, 2020.

Prof. Susmita Dutta delivered a keynote lecture on 'CO2 sequestration' in a 5-Day Faculty Development Programme on 'CO2 Sequestration & Utilization' at VIT University, Vellore, on Dec 10, 2020.

- Dr. Arjyayoti Goswami delivered a lecture on 'Manufacturing at Micro and Nano Scale- Approaches and Experiments' in a FDP, organized by the Dept of Mechanical Engineering, Ajay Kumar Garg Engineering College, on December 31, 2020.

SPONSORED & CONSULTANCY PROJECTS

- Title: The Social Impact of Corporate Social Responsibilities of the Major Public Sector Undertakings in India: A Case Study of West Bengal
Principal Investigator: Dr. Anupam De, Dept. of Management Studies
Sponsored Agency: Indian Council of Social Science Research (ICSSR)
Month & Year of Sanction: September, 2019
Sanctioned Amount: Rs. 9,45,000

- Title: Template based fabrication for development of various micro nano structured surfaces and their characterization
Principal Investigator: Dr. Arjyayoti Goswami, Dept. of Mechanical Engineering
Sponsored Agency: DST-SERB
Month & Year of Sanction: December 2019
Sanctioned Amount: Rs. 23,93,680

AWARDS AND ACHIEVEMENTS

- Prof. Subrata Banerjee, Dr. Aniruddha Bhattacharya, Prof. Parimal Pal, Prof. Samarjit Kar, Dr. Durbadal Mandal placed as top 2% scientists in the world in 2019, by survey conducted by a team of scientists at Stanford University.
- Ms. Mamta Gwala (18CH4105) who passed M. Tech in Chemical Engineering in this year and carried out her M. Tech project work under the joint supervision of Prof. Susmita Dutta and Dr. Rajib Ghosh Chaudhuri, has been selected Ambuja's Young Researcher's Award for 2020 from Indian Institute of Chemical Engineers.
- Prof. Subrata Banerjee of Electrical Engineering has been inducted in the Editorial Board of 'IEEE Transportation Electrification Community e-Newsletter (USA)' in August, 2020.
- Prof. Subrata Banerjee of Electrical Engineering is nominated for Honorary Rosalind Member of London Journals Press, 2020.
- Prof. D. K. Pratihar, Alumnus, NIT Durgapur (B. E. Mechanical Eng. 1988 and M.Tech 1993), Presently serving as Professor (HAG scale), Dept. of Mechanical Engineering, IIT Kharagpur, has received the INSA Teacher's Award 2020.
- Mr. Romesh C Kotwal (Alumnus, 1995, Electrical Engg.), SSP J&K Police, received President Medal for Meritorious Service in police on the Eve of Independence Day 2020.
- Dr. Kalyan Adhikari, Professor and Head, Department of Earth and Environmental Studies has been nominated as a Technical Committee member of Groundwater Consultant Organisations (GWCO) of National Accreditation Board for Education and Training (NABET) of Quality Council of India (QCI).
- Dr. Arup Kumar Mandal of MME department, NIT Durgapur is selected as a Faculty in-Charge of the newly opened 'IIM Student chapter, NIT Durgapur' since September 19, 2020.
- Dr. Arup Kumar Mandal of MME department is elected as an executive body member of the Indian Institute of Metals, Durgapur Local Chapter w.e.f. December 27, 2020.
- Dr. Sayantari Ghosh selected as Track Chair of Computational Biology Tack for INDICON 2021 in December 2020.

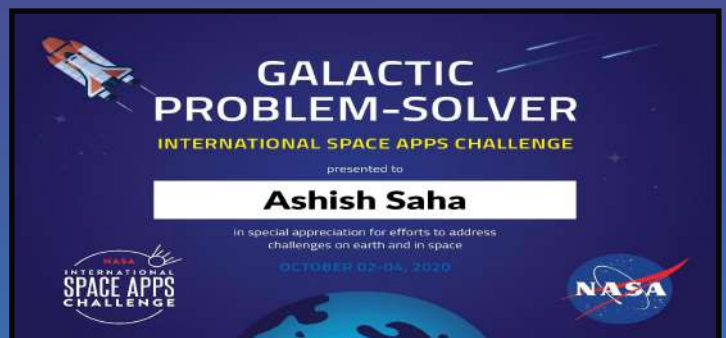
- Ankit Pandey, Ashis Srivastava & Rahul Mohata made NIT DURGAPUR proud by winning the first position in a competition organized by Larsen and Turbo- CreaTech 2020 Engineering the Future held in Mumbai. The team from NIT Durgapur presented an interesting topic which is indeed a need of the hour- "Alternative Energy Harvesting from Shoes during Walking & Speed Breakers".



- Priyanka Roy Chowdhury, alumna, Dept of Physics, has received the prestigious "Dr. Kalpana Chawla Scholarship" 2020.
- NIT Durgapur has been recognized as a Social Entrepreneurship, Swachhta and Rural Engagement Cell (SES REC) Institution.



- Ashish Saha is awarded among Top 3 in State Level and Top 21 & "Galactic Problem Solver" in the National Level of NASA International Space App Challenge 2020. He has worked and Solved one of the major Problem Statement "Better Together" of the NASA Space App Challenge 2020.



- Ashish Saha has Received "1st Online National Hackathon on Technological Innovation for Toys" Consolation Prize Conducted by NIT Arunachal under The Ministry of Education Govt. of India further it went to the Panel of Ministry of MSME.



OUTREACH ACTIVITIES

- Prof. Parimal Acharjee chaired a session in International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET-2020) July 10-11, 2020, for the session "Power System Optimization" on July 10, 2020 at NIT Patna.
- Dr. Gautam Bandyopadhyay was Invited by Principal, MCKV Institute of Engineering to act as a member of the Board of Studies (BOS) of Management Science and Humanities Department of MCKV Institute of Engineering on July 12, 2020.
- Dr. Anupam De acted as an ExternalExpert for MBA 2nd Yr. Viva voce Examination 2020 of Indian Institute of Engineering Science and Technology, Shibpur (IEST Shibpur), held through online mode on July 27-28, 2020.
- Prof. Partha Pratim Sengupta Chaired a session on Social Work Intervention during Pandemic in the International Conference on "Pandemic and Social Work Profession" at Bankura University on August 28.
- Dr. Sutanuka Banerjee acted as a Session Chair in a conference entitled "Pandemic and Social Work Profession" at Bankura University on Aug 29, 2020.
- Dr. Anupam De acted as an Observer of the 'National Eligibility Cum Entrance Test, NEET (UG)-2020' conducted by National Testing Agency (NTA) held on September 13, 2020.
- Dr. Sutanuka Banerjee acted as an External member for a selection committee under the project appointment at IIT (ISM) Dhanbad on Sep 15 & 17, 2020.
- Dr. Anupam De acted as an Observer of the 'Joint CSIR-UGC NET June 2020' held on November 19, 21 & 26, 2020.

- Dr. Subhankar Roy-Barman from Department of Biotechnology served as a PhD thesis examiner for a dissertation work named "Application of Novel polymeric biomaterial for health" submitted by Mr. Satish Kumar from KIIT University, Bhubaneswar during November, 2020.
- Prof. Parimal Acharjee acted as the Chairman of Selection Committee of Project-SRF/JRF/ Project Associate/Project Assistant under Advt. No. 04/2020 for CSIR-Central Mechanical Engineering Research Institute, Durgapur on December 16 & 17, 2020.
- Prof. Subrata Banerjee chaired a session in IEEE International Symposium on Sustainable Energy, Signal Processing & Cyber Security (IEEE-iSSSC 2020) at GIET University, Gunupur, on December 17, 2020.
- Prof. Parimal Acharjee acted as an Expert of Selection Committee of MT-2019 Open Recruitment Advt. No. 01/2019 in Electrical discipline for Coal India Limited during December 20-23, 2020.
- Dr. Amlan Ghosh invited as a panellist by Institution Innovation and Incubation Council (IIIC), NIT Durgapur on "AtmaNirbhar Bharat- Vocal For Local" on December 22, 2020.



- Dr. Aniruddha Bhattacharya acted as a Expert of selection committee for PhD admission for the Department of Electrical Engineering at Institute of Chemical Technology Mumbai, Marathwada Campus Jalna on December 28, 2020

- Dr. Ashish Bhattacharjee, Associate Professor, served as an External expert of a technical committee regarding procurement of class 100K clean room facilities for unified campus of Bose Institute Kolkata on December 30, 2020.

COLLABORATIVE ACTIVITIES

- Collaborative research activities are carried out by Prof. Pathik Kumbhakar for joint publication of research papers with, Dr. Chandra S Tiwary, Dept. of Metallurgical and Materials Engineering, Indian Institute of Technology, Kharagpur, during July-Dec., 2020. He also carried out work with Prof. Prasanta K Datta, Dept. of Physics, Indian Institute of Technology, Kharagpur and collaborated with Prof Udit Chatterjee, Dept. of Physics, the University of Burdwan. He jointly published research paper with Dr. Sougata Ghosh, Department of Microbiology, School of Sciences, RK University, Rajkot, Gujarat. He also published paper in collaboration with Dr. Sujit Kumar Ghosh, Dept. of Chem., Assam University.

- Collaborative research activities are carried out by Dr. S. Ghosh for joint publication of research papers with Dr. S. Bhattacharya, IIT Kharagpur (July-Dec, 2020), Prof. Y. N. Singh, IIT Kanpur during July-Sept, 2020; Prof. Sanghamitra Bandopadhyay, Indian Statistical Institute, Kolkata; Prof. Ujjal Maulik, Jadavpur University during Oct-Dec, 2020 and Dr. Palash Dey, IIT Kharagpur.

- Dr. Achintya Kumar Pramanick of Department Mechanical Engineering carried out his collaborative work on Thermodynamics with University of Stuttgart, Germany; Duke University, USA; University of Lorraine, France; Universidade Do Vale Do Rio Dos Sinos, Brazil during. He also jointly worked in the area of Heat Transfer with Central Mechanical Engineering Research Institute, Durgapur.

- Dr. Arup Kumar Mandal collaborated with Prof. O.P. Sinha from IIT(BHU), Varanasi for research publication in the areas of Iron and Steel making, E-waste, Plasma melting. He also collaborated with Dr. Mohd. Talha from the School of New Energy and Materials, Southwest Petroleum University, China and Dr. Nawshad Haque from CSIRO Australia for joint research work in the areas of Life Cycle Assessment (LCA) of Iron and Steel Making and Hydrogen energy.

- Prof Susmita Dutta and Dr. Abhiram Hens were selected and successfully completed Professor Internship Programme "Sampark" in the Innovation Department of Water & Waste Solutions business of THERMAX LIMITED. They worked on the projects titled "Fluoride Removal from Industrial Wastewater with High TDS" and "Optimization of tank sizing, mixing for CCT (Chlorination contact tank) using CFD". One article has been published on 'SAMPARK' in their magazine.

'Sampark' with academia

As the name suggests, 'Sampark' endeavours to build a conduit between industry and academia, blending research expertise with commercial application to bring out optimum business solutions. It is a one-of-a-kind professor internship programme introduced by Thermax's campus team, where faculties from esteemed colleges are invited to work with Thermax divisions on short term projects, providing an opportunity to implement innovative ideas, applied research and best practices.

Sampark 1.0 was launched on 14th August 2020, where two professors from the National Institute of Technology, Durgapur started live projects for the Water and Waster Solutions division under the mentorship of Nandan Prabhune, Group Head - Technology and Innovation. Dr. Susmita Dutta worked on 'Fluoride removal from industrial wastewaters with high TDS (Total Dissolved Solids)'. Multiple alternatives that have emerged out of her work can be used to optimise design and plant operations. 'Optimisation of tank sizing, mixing for CCT (Chlorine Contact Tank)



Dr. Susmita Dutta



Dr. Abhiram Hens

using CFD', was the topic chosen by Dr. Abhiram Hens, in which he developed CFD (Computational Fluid Dynamics) based simulations. His findings provided deeper insights to improve the design of water treatment plants.

Despite the tough situation due to COVID, Sampark 1.0 was completed successfully through the virtual platform.

Looking at the impact of the programme, the campus team would be happy to collaborate across divisions to launch more such projects that is relevant to the academics as well as Thermax.

All Hands Meet

One of the priorities of Ashish, since he joined as the MD & CEO of Thermax, has been to continuously communicate with employees through blogs, town halls and personal interactions. 'All Hands Meet' is one such initiative commenced from Q1 FY2020-21 onwards where Ashish along with the top management will share the company's financial performance every quarter, key business and people highlights and most importantly, capture feedback and suggestion from all employees. The first Meet took place on

24th August through Microsoft Teams live event. In his address, Ashish mentioned that though the quarter was extremely challenging in terms of numbers with industrial activities stalled due to COVID, the company did extremely well in focussing on employee safety and health. During the session, Sherad Gangal, Head, People Processes, said, "It is important during these times to keep communicating with colleagues with or without a quarter update to ensure that

everybody is safe, which is a topmost priority for Thermax." This was also a special occasion as all employees came together to bid farewell to Unny and express their gratitude towards him. Anu Aga, Meher Pudumjee and Pheroze Pudumjee joined the event and shared memorable instances from Unny's 28 years of journey with Thermax. They, along with the leadership team, thanked Dr. Sonda, who also superannuated as the R&D head of Thermax on 31st August, for his exemplary contribution to Thermax's technology drive.

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STUDENTS' ACTIVITIES

- Dr. Avilash Singh Yadav, student of B.Tech 2015, obtained a post-doctoral position at Cornell University, USA.
- Mr. Pratyay Sengupta, student of B. Tech, 2020, received PMRF (Prime Minister's Research Fellow Scheme) at IIT Madras.
- Mr. Sourav Mukherjee, student of B.Tech, 2020, was selected for Ph.D fellowship at Monash University, Australia.
- Dr. Kiran Ashok Bobde, Ph.D scholar under the guidance of Prof. Kaustav Aikat, secured an R & D Scientist job in Mettler Toledo.
- Mr. Sayantan Sarkar, research scholar in Chemical Engineering has attended the 10th International Conference on 'Sustainable Waste Management towards Circular Economy', during December 2-5, 2020, organized by Jadavpur University, Kolkata, India. He was awarded the IconSWM Excellent Award 2020 for his outstanding presentation on 'Parametric optimization for regeneration of waste lubricating oil by CCD approach'.



- The paper titled 'Artificial Intelligence Modelling For Real Time Prediction of Melt Flow Index in Commercial HDPE Plant' was presented in the 35th Indian Engineering Congress held during 18-20 December 2020 by Annasha Dey, Rhythm Aich, Sandip Kumar Lahiri of the Department of Chemical Engineering. The paper is selected as the Best Paper in the Chemical Engineering Division by The Institution of Engineers (India).



- The paper titled 'Design optimization of heat exchanger by old and new generations metaheuristic optimization algorithms: Insights and comparisons' was presented in SCHEMCON – 2020 held during October 9-10, 2020 by Boyina Venkata Akhil, Prashanna Sharma and Dr. Sandip Kumar Lahiri of the Department of Chemical Engineering. The paper is selected as best paper and secured the 3rd position in Process Modelling, Simulation & Optimization division by Indian Institute of Chemical Engineers.



IIC ACTIVITIES

• WEBINAR ORGANIZED :

• A webinar was organized by Dr. Sanjiban Banerjee, sharing his story and experience learned in his entrepreneurial journey. He is the co-founder and director of Ab Genics Lifesciences Private Ltd., a biotech company working to develop antibody-based therapeutics for infectious disease and cancer. The seminar was held on December 16, 2020, at 11:00 am. through Google meet, with the participation of more than 60 attendees.



• EXPERT TALKS :

• Mr. Udit Sekhar Mukherjee delivered a speech on 'My Story- Motivational Session by Successful Entrepreneur/Startup Founder' in a session organized in Google meet on December 27, 2020, at 7:00 pm with more than 50 participants.

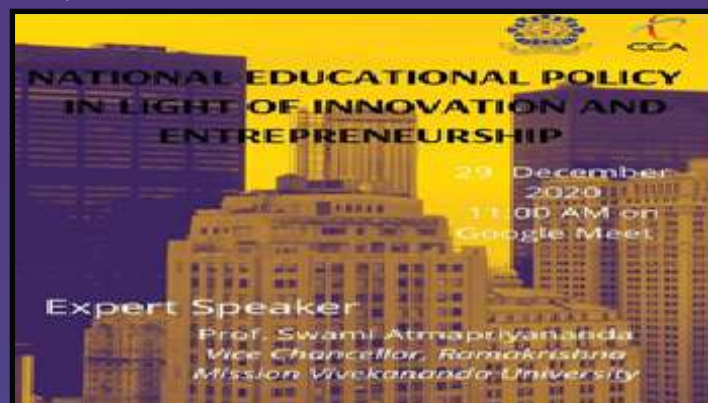
Webinar topic	Expert Speaker	Date and Time
My Story- Motivational Session by Successful Entrepreneur/Startup Founder	Mr. Udit Sekhar Mukherjee Managing Director, KAM PRIME SURGICALS	7:00 PM, 27 th December
National Education Policy with a focus on innovation, research, and entrepreneurship	Prof Alok Ghosh Associate Professor and former Head of the Department of History, University of Kalyani.	7:00 PM, 28 th December.
National Education Policy in light of innovation and entrepreneurship	Prof Swami Atmapriyananda, Vice-Chancellor, Ramakrishna Mission Vivekananda University.	11:00 AM, 29 th December
Identifying Intellectual Property <i>Component of the early stage of innovation.</i>	Mr. Anjan Sen Patent Attorney & IPR Advocate	4:00 PM, 29 th December



• Prof. Alok Ghosh delivered a speech on 'National Education Policy with a focus on Innovation, Research, and Entrepreneurship' in a session organized in Google Meet on 28th December 2020 at 7:00 pm with a total number of participants more than 50.



• Prof. Swami Atmapriyananda delivered a speech on 'National Education Policy in light of Innovation and Entrepreneurship' in a session organized in Google meet on 29th December 2020 at 11:00 am More than 50 participants joined the session.



• Mr. Anjan Sen delivered a speech on 'Identifying Intellectual Property: component at the early stage of Innovation' in a session organized in Google meet on 29th December 2020 at 4:00 pm with more than 50 participants.



• **PANEL DISCUSSION :**

• An interactive session on "Atma Nirbhar Bharat Vocal For Local" took place on 22nd December 2020 at 4:00 pm by Prof. Amlan Ghosh, Prof. Mukul Asher and Mr. V. Rama Krishnan. Prof. Mukul Asher is the Senior Fellow, Executive education, Lee Kuan Yew School of Public Policy, National university of Singapore. He is also the senior advisor (Honorary), International Financial Services Centers Authority (IFSCA), Government of India. In other hand, Mr. V. RamaKrishnan is a Performance Management Consultant and also teaches Management Development Programs on Public Policy. He is an Associate Professor, Department of Management Studies, NIT Durgapur.



• **CONTESTS :**

• INNOVATION CONTEST 2020 was held in December 2020 in order to help students to transform their innovative ideas into reality, and to promote creative and entrepreneurial culture in NIT Durgapur. The contest was concluded on January 26 2021. Top teams got an opportunity to participate in IIC, MHRD All India Idea Contest and will be sent to MSME's Idea Programme for funding.

• The Idea Contest 2020 was based around the idea "Food For Good: Transforming food into a vehicle for change". It was organised on 13th december, 2020. Around 22 teams participated and presented their creativity and uniqueness. Here, Institute Innovation and Incubation Council, NIT Durgapur in association with Entrepreneurship Development Cell, NIT Durgapur conducted an Idea Competition based on the theme 'Food for Good: Transforming Food into a vehicle for change', where, the students were invited to give viable ideas to transform food from a necessity for survival into a vehicle for change and prosperity for humanity.

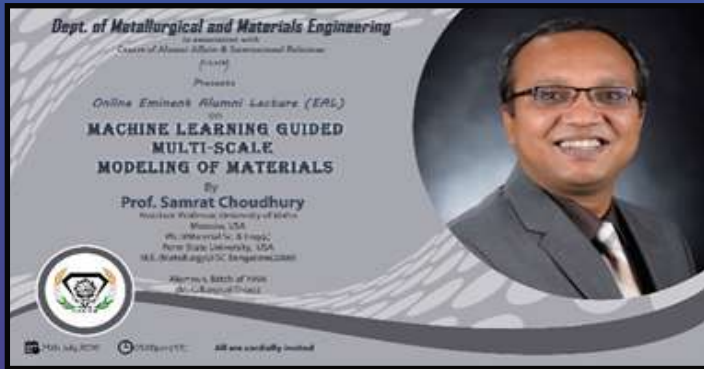


EMINENT ALUMNI LECTURES

• Eminent Alumni Lecture (EAL) on 'Some Fundamental Concepts in Synthesis and Application of Particulate Suspensions' by Dr. Partha Patra, Associate Research Scientist and Adjunct Professor, Columbia University, New York, USA, was held on July 07, 2020 through MS Teams platform. Dr. A.K. Mandal of MME dept. acted as a programme coordinator.



- Eminent Alumni Lecture (EAL) on ‘Machine Learning Guided Multi Scale Modelling of Materials’ by Dr. Samrat Chowdhury, Assistant Professor, University of Idaho, Moscow, USA, was held on July 25, 2020 (IST) through MS Teams platform. Dr. A.K. Mandal of MME dept. acted as a programme coordinator.



- Eminent Alumni Lecture (EAL) on ‘Online open house interaction’ by Mr. Subrata Bhattacharya, Director, Technical and Business Development, Jindal Stainless Ltd., was held on August 29, 2020 through MS Teams platform. Dr. A.K. Mandal of MME dept. acted as a programme coordinator.



- Eminent Alumni Lecture (EAL) on ‘Knowledge based Process and Product Development for Aerospace Applications’ by Dr. T. Raghu, DMRL, Hyderabad was organized on August 31, 2020 through MS Teams platform. Dr. A.K. Mandal of MME dept. acted as a programme coordinator.



- Eminent Alumni Lecture (EAL) on ‘Exponential Technology: Building Better Planet’ by Mr. Niraj Kumar Delivery Project Executive – IBM, USA was held on September 04, 2020 through MS Teams platform. Dr. A.K. Mandal of MME dept. acted as a programme coordinator.



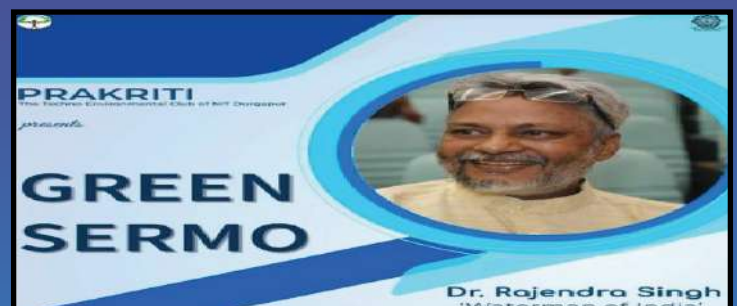
INSTITUTE CLUB EVENTS

- **PRAKRITI – The Environment Club :**

- SHRISHTI is a weekly journal that pulled in stories from all over the world, providing a comprehensive overview of the environmental news from a variety of perspectives and outlets. The first edition was published on 1st October 2020. COVID BUZZ was also included in the recent edition to provide the news regarding COVID-19.



- PRAKRITI came up with the first edition of GREENSERMO, a virtual Etalk session by Dr. Rajendra Singh, popularly known as The Waterman of India. The session which went on live in the official Facebook page of PRAKRITI Club on 31st October 2020 focused on his aspirations to revive the dried-up water bodies across the country. Ideas and thoughts were exchanged regarding conservation and sustainable use of water bodies.





- PRAKRITI came forward with the first online event "CONUNDRUM" with all the cherished memories and the famous environmental occasions in the form of difficult and confusing picture clues and riddles. The event went live from 2nd - 3rd September 2020. Day 1 consisted of three rounds with questions based on locations in college and Day 2 had two rounds with questions related to major environmental events in history.



- **STROKES – The Photography Club:**
- Strokes, The Official Art and Photography Club of NIT Durgapur conducted a fun filled and informative event LENSEMBLE, a three-day webinar from 14th to 16th August, 2020 where famous photographers from around the country shared their personal experiences through an interactive session. The event commenced with speaker Pankaj Prajapati followed by speakers Tania Chatterjee, Jitendra Singh, Abhishek, and Riddhi Debh simultaneously over a span of 3 days. It was held on Instagram live which gave all aspiring photographers the perfect platform to gain knowledge about basics of photography from eminent photographers.



- **SPIC MACAY NIT Durgapur Chapter :**
- Classical Music Series (6th October 2020 to 25th February 2021) - was created to enthuse the youth to delve into the depths of melody and rhythm that have enraptured the hearts of Indians through generations. This specially curated series consists of renditions of ragas like Bihaag, Bhairavi, Bhimpalashi, Rageshree and many more.



- Classical Dance Series (30th July 2020 to 23rd September 2020) - was a one-of-a-kind demonstration included all the major classical dance forms like Kathak, Manipuri, Odissi, Kuchipudi, Bharatanatyam and Mohiniattam.



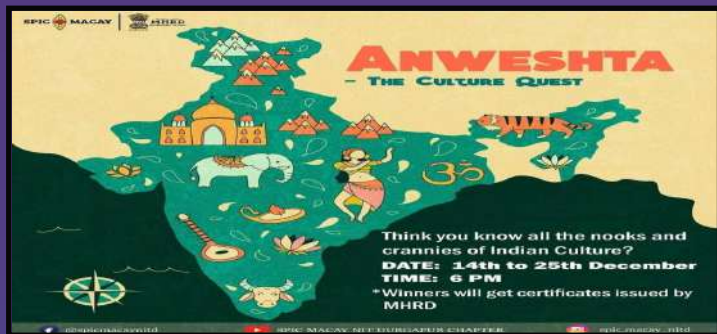
- Independence Day (15th August 2020) - SPIC MACAY NIT Durgapur Chapter celebrated Independence Day on a virtual platform. Their volunteers from all across India, joined hands to deliver a medley of poignant and galvanic performances that reflected on the unforgettable history of our nation.



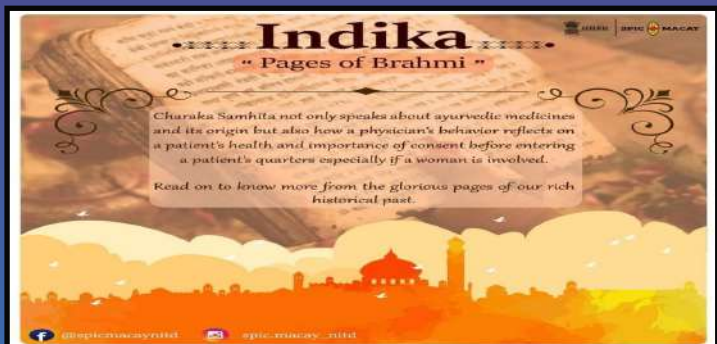
• Durga Puja (19th to 26th October 2020) - SPIC MACAY NIT Durgapur Chapter observed this festival with an eclectic mixture of virtual performances. A spectacular rendition of music and dance performances by their volunteers, this ten-day long tribute oozed with exuberance and reverence towards the Mother Goddess.



• Anweshta- The Cultural Quiz (14th to 25th December 2020) - was curated to provide a fun and engaging initiation into unearthing the marvels of our vibrant history and beyond. With over 200 participants, this two-week long contest promised a trove of priceless knowledge and exhilarating competition.



• Indika (6th June 2020 to 3rd April 2021) - a weekly series, Indika is SPIC MACAY NIT Durgapur Chapter's own quest to rediscover the past. A comprehensive compilation of topics ranging from ancient Indian architecture, Indian civilization, literature and science, Indika aims to expand the horizon of our knowledge of our motherland and all that it beholds.



• SAE - Society of Automotive Engineers :

• DECRYPT DE HEIST (1st June 2020) - it was an online event organised during the lockdown period. The theme of this event was inspired by the popular Netflix series Money Heist. Here the participants were provided with picture clues and riddles that were based on scientific technologies and discoveries.

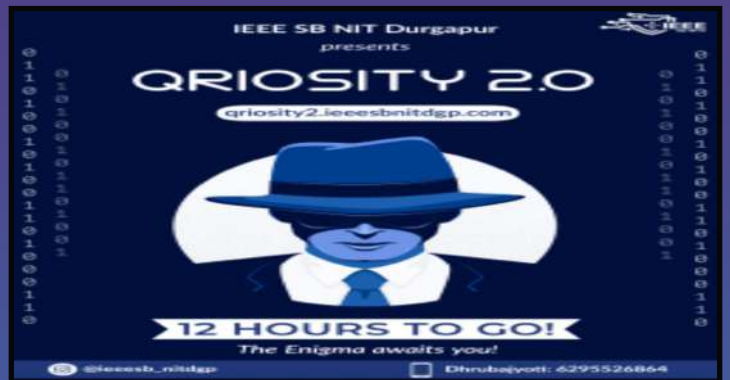


• CRYPTTECH (1st November 2020) - was a protracted project where the latest technologies and innovation of various companies or individuals was presented. These technologies and innovations will have a greater value in the near future and will contribute to the well being and betterment of the automobile and robotics sector.

• FRESHERS ORIENTATION (23rd December 2020) - the freshman year were introduced to the Society of Automotive Engineers India, Collegiate Chapter NIT Durgapur and were made acquainted with the multiple events i.e. workshops, seminars, webinars that are conducted by the club along with the competition in which the club took part every year viz. mBAJA competition organised by SAEINDIA.

• IEEE - Students' Branch

• Qriosity 2.0 (12th and 13th September, 2020) - was the second iteration of the club's annual technology quiz. It was held over 2 rounds, and the number of participants was well over 150. The theme for 2020 was "The Imitation Game".



• Polaris (14th May and 19th June, 2020) - was a series of interviews with distinguished and esteemed speakers from the world of academia. It aimed to challenge ancient assumptions and misconceptions, and highlight the towering opportunities that the field of research and academia offer. There was a total footfall of 1000 people.

• IEEE Day - 6th October, 2020 witnessed the celebration of the 11th IEEE Day all across the world. The motto of this day is “Leveraging Technology for a Better Tomorrow” and IEEE Student Branch NIT Durgapur had a little celebration of the same. A webinar was organized with Dr. Aniruddha Chandra, Faculty Advisor of IEEE SB NITD and Associate Professor at the Department of ECE, NIT Durgapur, and Mr. Aniq Ur Rahman, alumnus of NIT Durgapur and ex-Chair of IEEE SB NITD, as the speakers. It was a wonderfully enriching experience, with both speakers sharing insightful stories about their relationship with IEEE during their student lives, impact of IEEE on their academics, and their experiences of being an IEEE member after graduation. They also explained to the audience the benefits of being an IEEE member.



• A webinar on ‘IEEE & Emerging Technologies’ was organized on December 27, 2020, by Electronics & Communication Engineering Students' Society. The main speaker of the event was Prof. (Dr.) Lance Fung, Director-Elect IEEE, Asia & Pacific - 2021-22. Prof. (Dr.) Anupam Basu [Director, NIT Durgapur] and Prof. (Dr.) Sadanand Sadashiv Gokhale [Chairman, BOG, NIT Durgapur] were the guests of honour for the event. The webinar was about the benefits of IEEE and perks of being an IEEE Member. Prof. Fung further spoke about various emerging technologies such as blockchain, neural networks, cryptography, machine learning and much more, which encouraged the participants to know more about the fields and its research and developmental activities.



• QuizInc :

• QuizInc, NIT Durgapur, came forward to do their part for the affected victims of the devastating Assam floods, and organized a fundraiser quiz. "Harmony Quiz" was arranged in collaboration with the NGO Progotixil on 27th July, 2020. The Rotaract Club, Guwahati Yuva, and

Zomato Feeding India Sivasagar chapter were the distribution partners for the event. Each participating team paid a minimum of Rs. 50, which was directly forwarded for the relief of the flood-affected people. In dire times, this event helped in bringing our attention to the plight of the flood victims and contributed in mitigating the concomitant of the calamity.

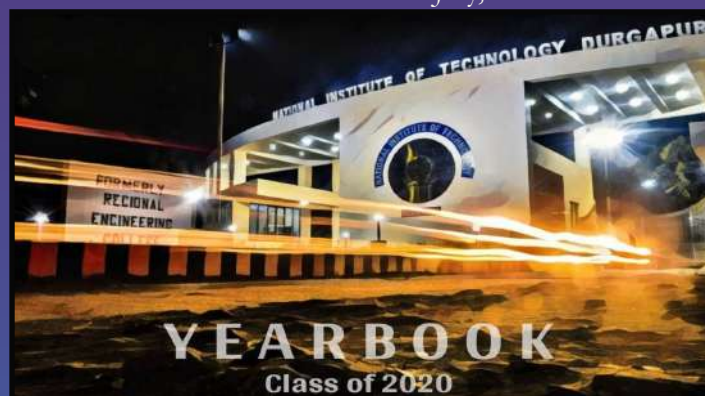


• Literary Circle :

• Humans of NIT Durgapur - Literary Circle firmly believes that stories, experiences, urban legends are the very soul of what makes this place so beautiful, and so nostalgia-ridden, especially in the midst of this pandemic when we can't go back. This is an attempt to archive the history, the stories and the mystery of this fabled place. The stories that make NIT Durgapur what it is.



• Yearbook 2020 released on 11th July, 2020 -



• Darkest White (currently ongoing) - was also active from July to Dec, 2020. The Darkest White is the creative outlet of the Literary Circle, NIT Durgapur. It is a platform for various kinds of entries, ranging from a plethora of penned pieces, brilliant images and vibrant artwork. It released the latest collection of posts, 'The Pandemic Pages, to instill in everyone, a sense of hope and mental support.

• **Maths N' Tech Club :**

• Webinar series with five distinguished professionals was organised with the aim of getting to hear from the best in the industry. The eminent speakers were Ms. Nistha Tripathi, Mr. Himanshu Bansal, Prof. Sujatha Ramdorai, Mr. Amol Karale, Mr. Saurabh Jain. It was conducted from 1st - 10th August, 2020, through platforms like Instagram Live, Facebook Live and Google Meet.

• **CCA - Centre for Cognitive Activities :**

• **CORE CELL -**

• PARICHAY 2020 (13/12/2020) - was held 6 PM onwards at Youtube Live. CCA conducted the very first virtual edition of Parichay, an annual event organized to introduce the freshers to the club and its activities. The highlighting feature of Parichay2020 was the Virtual College Campus of NIT Durgapur, which the club members created using Minecraft. The live stream saw a huge response with over 3400 views on Youtube. This was followed by a fun online event 'The Fleeting Conundrum' conducted on Instagram which had many riddles and brain teasers.



• Preparation Strategy for UPSC (WEBINAR) (01/11/2020)- CCA in association with NEXT IAS organized a webinar on UPSC preparation strategy. Jyestha Maitrei (IPS 2018) and Ruchika Bhardwaj (Faculty at NEXT IAS) were invited as speakers for the webinar.



• Python/ Data-Science Workshop (23 /08 /2020-24 /08 /2020) - CCA, in association with "What After College" (WAC), conducted a workshop series on the basics of Python and Data Science. Participants hailed from different corners of India and mostly included eager to learn school looking to enrich their resumes before entering their respective colleges.

• Satellite Seminar (21/06/2020) - a live webinar on career counselling was organized by CCA in association with Life-Class. The webinar was conducted by Vishnu Chundi, Co-founder and CEO of AssetVault, a multi-award fin-tech and an alumnus of the London Business School. The webinar included popular career planning techniques and explanation of concepts such as the Ikigai framework. With the concept of "Career is a marathon and not a sprint" advices were given for making decisions based on long-term goals rather than short ones.

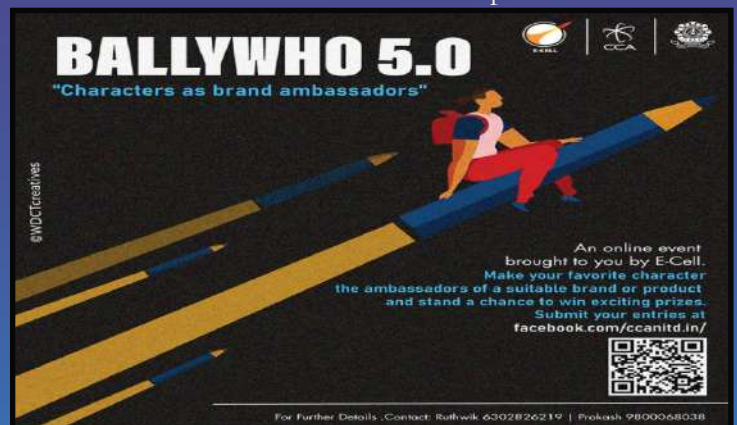


• STOCK PRO WORKSHOP (20/03/2021) - Core Cell at CCA, in association with Stock Pro Academy conducted a workshop based on Stock Market Trading and Investment. Participants hailed from different corners of India summing up to almost 350+ registrations. It was a 2 day training program held on GOTOWEBINAR app.

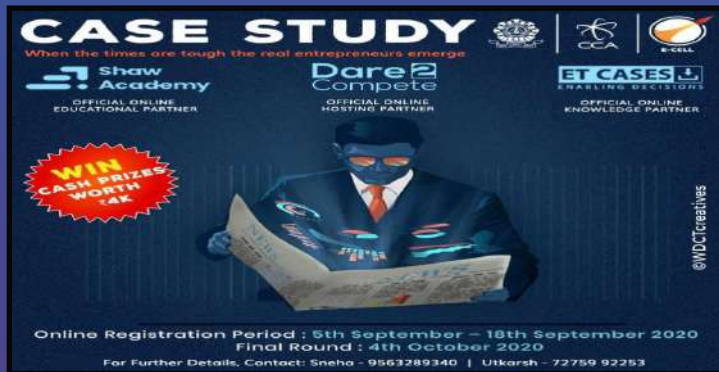
• 'THE LEADER'S MINDSET' - Core Cell, CCA launched its podcast series, 'The Leader's Mindset' with the aim of sharing stories of commitment, hard work, and success to foster a sense of innovation and leadership in every individual. A podcast featuring some of the most extraordinary personalities with their inspiring stories from all across the world. The first episode of the series was launched on 10th December 2020 on the official Youtube channel of CCA.

• **E CELL - Entrepreneurship Cell -**

• BALLYWHO 5.0 (14/12/20 - 23/12/20) - E Cell, CCA organized their round-the-year event, Ballywho 5.0 on Facebook. It was a fun event wherein the participants had to apply their brains and choose an on-screen personality or character as a brand ambassador for a specific brand.



- CASE STUDY CHALLENGE 2020 (Phase 1: 5/09/2020 - 18/09/2020, Phase 2: 4/10/2020) - E Cell of Centre for Cognitive Activities (CCA), in association with Dare2Compete, ET Cases and Shaw Academy, conducted an online Case Study challenge on the D2C platform. The event saw a massive participation of around 250+ teams from various IIMs and other institutes.



- Youth Parliament (24th January, 2021) - the seventh edition of Youth Parliament was conducted virtually under the guidance of Prof. Sutanuka Banerjee, and Prof. Balraj Sidhu, esteemed faculty member of IIT Kharagpur. The participants had to choose among Government, Opposition and press during registration. A workshop was conducted 3 days prior to the event to explain the roles of the different bodies to the participants.

- **Research and Development Cell -**

- Scale-Up (21/01/2021 – 28/01/2021) - was a “Learn by Doing” event conducted by the Research and Development Cell, CCA. The most creative and innovative entries were chosen as the winner and special mentions and certificates were given out accordingly.

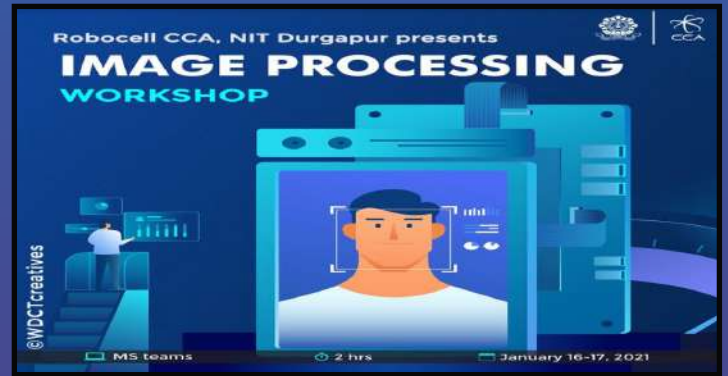
- **ROBO CELL -**

- ESCAPARATE - a video series presenting innovations that makes tackling daily life problems easier. ESCAPARATE showcased how technology is entangled with the solutions to our daily life problems through a sequence of videos that were uploaded in YouTube. Despite being conducted in an online platform this event had overwhelming response from the students.

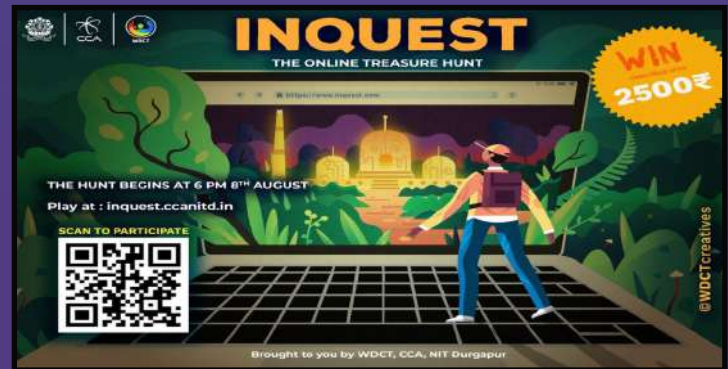
- Image Processing Workshop (16 th – 17th January, 2021) - Robocell, conducted a 2-day instructional workshop on image processing. The event enjoyed very positive feedback from over 350 students, over a hundred of which were outsource participants from different colleges from all over India. Robocell also showcased some of its attractive projects which hadn't been revealed to anyone outside of CCA previously. There were:

- RoboStare : A movement tracking webcam device which literally would “keep staring” at the user’s face.
- Inkless: A contactless virtual pen to draw/write on any

surface. A combination of MS Teams and Google Collab was used to adapt to the necessary online mode of instruction.



- **WDTC - Web Design and Creative Team -**
- INQUEST (8/08/2020-09/08/2020) - an online treasure hunt, was conducted by the Web Design and Creative Team at CCA. The event followed a quiz format. The event took place over a course of 2 days and had a total of 34 questions which had to answered at any point during the event hours.



- MAIDAN E CREATIVE (26/01/2021 - 2/02/2021) - spanning over for almost a week Maidan E Creative offered as a perfect platform for the students to showcase their artistic acumen. The students were provided with the required softwares and follow along tutorial videos to help them set up. This was followed by workshops on Graphic Designing using Adobe Photoshop and Adobe Illustrator that gave the students the exposure required for designing,

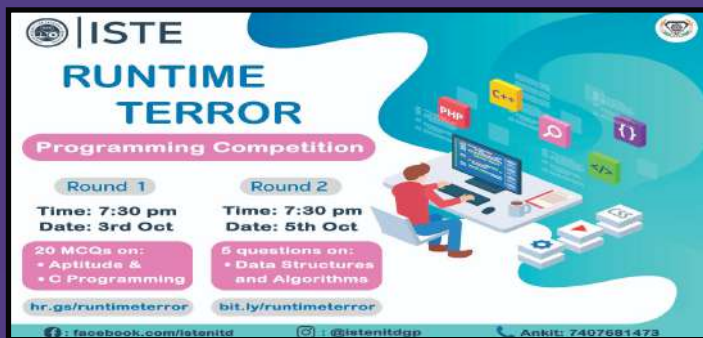


- Trivio (03/04/2020 - 05/04/2020) - the WDCT at CCA conducted Trivio, the trivia quiz, on the CCA mobile app. It was a 100 seconds long event with questions were based on general knowledge. The event was held on three consecutive days and had an average of 50 participants per day.



• **ISTE - Indian Society for Technical Education :**

- RECadathon (27th September – 9th October 2020) - to commemorate, the ecstasy of the magnificent tool, CAD to promote new ideas and elaborate designs.
- RUNTIME ERROR (3rd – 5th October 2020) - a competition , consisting of a two round programming competition comprising Math Aptitude, Programming, Data Structure, and Algorithm providing everyone to showcase their programming skills and test capabilities on competitive grounds and also gain experience in these fields in order to prepare themselves for future interviews in these domains.



- Cognitive Intelligence Test (CIT, 17th – 20th December 2020) - it was an exquisite episode to venture out one's adroitness in the subjects of the basic mathematical aptitude, verbal and logical reasoning and data interpretation. This special affair of ISTE NIT DURGAPUR had attracted thousands of aspiring candidates from various colleges all over India.

• **Entrepreneurship Development Cell :**

- On Campus Hult Prize (13/12/20) - one of the world's largest student entrepreneurship programs offered in partnership with the United Nations. With a \$1,00,000 prize for the global winners as its anchor activity, Hult Prize is the largest platform for one to create ideas and take action to build a better world. The On Campus Rounds of Hult were conducted in NIT Durgapur by EDC and saw an overwhelming participation from enthusiastic students pitching their best ideas before a panel of highly qualified judges and mentors. The winning teams received mentorship and went on to the Hult regionals.
- Luminous 4.0 (12th - 15th November,2020) - an event

where participants are required to showcase their artistic bent of mind by making designs using any source of light. Held around Diwali, in online mode, this event aimed to test their creative capabilities and awarded the best talent. Luminous 2020 boasted of more than a 100 submissions from enthusiastic participants.



- Bizcup 3.0 (16th - 20th January 2021) - the third edition of Bizcup was held online due to the ongoing pandemic. Through three exciting rounds of the contest, it aimed to put the students in the shoes of entrepreneurs to help them understand and take interest in Entrepreneurship. With over 250 participants, BizCup 2021 was one of the biggest events of the year, helping EDC with its goal of fostering the entrepreneurial spirit amongst college students.

• **Radio Nitroz :**

- MEME-RAN-TINE (14th - 21st July 2020) - memes are one of our most vital survival tools during this quarantine as they are hilarious and savage at the same time so Radio NITroz conducted an event MEME-RAN-TINE, where participants had a chance to show off their awesome sense of humor by making memes on given list of places in the college. The event was very successful with 80+ participation.
- SHAAM-E-NOOR (12th – 17th November 2020) - light is a symbol of unity, hope and power. This year's SHAAM-E-NOOR was on different hues of Diwali celebration. Pictures, selfies, posts and uploading stories becomes an integral part around the each decorated corners during Diwali so participant's entries were posted on Instagram and Facebook page. A total of 130 Entries across 58 Institutions were made for 2nd edition of SHAAM-E-NOOR.



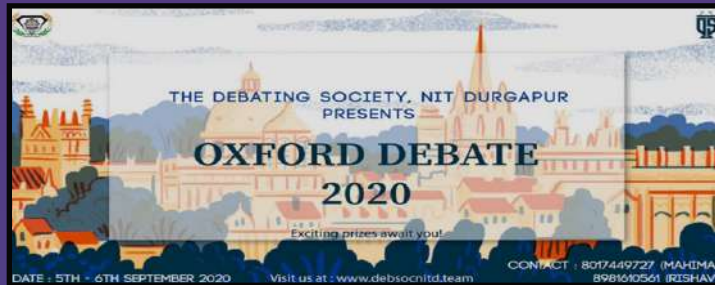
- MOVIE MYSTICS (12th-13th December 2020) - was one of the fun events of NIT Durgapur and participants

hunted for the correct film or web series by solving the exciting and interesting challenging riddles as well as figured out the connection between picture puzzles. It was an online event, which went on for consecutive 2 days on their Facebook page and it got a huge success with a marvelous entry of 100+ participants.



• **Debating Society :**

• OXFORD DEBATE 2020 - was the first of its kind; the format was inspired by the Oxford Union debate, in which the audience plays a significant role in determining the winning side. This 1v1 debate took place online on MS teams, and a topic was assigned 30 minutes before the debate. Each debater had to deliver a four-minute speech on the stance assigned by the OC. After the debaters have finished their speeches, the audience plays an important role by asking questions about the speeches and voting for the side they believe has the upper hand. More than 70 debaters and a dozen adjudicators from all over India took part, making this event a huge success for the Debating Society, NIT Durgapur.



• KNOW YOUR CAMPUS - as seniors we understand how exciting it is to gather information regarding the college, all sorts of myths and exotic places we have heard of on the internet or via seniors. Know Your Campus was

tailored only for the freshers, which has the motive of taking them through a virtual tour of the campus. We also gave them a chance to go mano e mano with the seniors of the club about any topic that baffles them. This series extended over a week where each day we released one video dedicated to a specific place on campus and described the place or any occasions such as fests associated with that place. We received exhilarating responses from every year across the college, and half of the videos were viewed thousands of times on Instagram.



• ICEBREAKER - was the first event for the freshers in 2020. The event initiated a conversation and gave the first years an opportunity to think differently on a range of topics. Topics were released everyday, and participants were asked to send us their arguments, which were published subject to the arguments adhering to the policies of facebook. The participants with maximum likes, comments and shares, while also considering the OC's opinion, were chosen to be the winners. We received more than 120 responses through facebook and email including a lot of positive applause.





राष्ट्रीय प्रौद्योगिकी संस्थान दुर्गापुर

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