

One-Week Faculty Development Program on Contemporary Research Areas in Electrical and Electronics Engineering”

19th February to 23rd February 2024

Objective: Advancement in Electrical and Electronics Engineering and concepts for faculty for latest innovation and ideation.

No: of participants: 47

Session speaker:

Dr. Amitava Chatterjee, Professor of Electrical Engineering of Jadavpur University

Dr. Prabir Kumar Mukhopadhyay, ex-Chairman, DVC

Mr. Ayan Dey, Director of Aeonix Research and Innovations LLP

Prof. (Dr.) Konika Das (Bhattacharya), Professor and former head of Electrical Engineering Department, IEST Shibpur

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No: of Participants: 72

Venue: Seminar Hall, Narula Institute of Technology

Outcome: Faculty listened to startup founders, professors in the area of prototype development of sound blocker, self-scanner and PPG device, harnessing energy from bio-waste in a locality etc.

Description of the Session:

The **Department of Electrical Engineering of Narula Institute of Technology** organized an **“One-Week Faculty Development Program on Contemporary Research Areas in Electrical and Electronics Engineering”** from **19th February to 23rd February 2024**. Total 47 participants with a wide gamut of academic background and research interest from various reputed institutes of the country participated in the FDP.

Dr. Amitava Chatterjee, Professor of Electrical Engineering of Jadavpur University, an internationally renowned academician, inaugurated the FDP and also gave the keynote speech on the role of computer vision in human-robot collaboration. Prof. Chatterjee discussed how humans and robots can accomplish various tasks with enhanced efficiency and speed through intelligent collaboration.

Dr. Prabir Kumar Mukhopadhyay, ex-Chairman, DVC, discussed the potential of agricultural waste to produce thermal power in co-firing principle. He highlighted that the eastern part of the country has a huge potential as a supplier of the agricultural waste for the thermal power stations and might obtain both financial as well as environmental benefits.

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Mr. Ayan Dey, Director of Aeonix Research and Innovations LLP, talked about the inspiring journey of his start-up company that provide R&D support and solutions to various government as well as private sector organizations. He demonstrated some of his prototypes such as sound blocker, self-scanner and PPG device developed for reputed client organizations such as Government of West Bengal, Tata Motors, Bata India etc.

Prof. (Dr.) Konika Das (Bhattacharya), Professor and former head of Electrical Engineering Department, IEST Shibpur, talked about technological aspects for overcoming barriers of energy access in rural India. She demonstrated how inter-connected micro-grids can be realized by harnessing energy from bio-waste in a locality.

Dr. Arijit Baral, Associate Professor of Electrical Engineering of IIT (ISM) Dhanbad, highlighted the technical challenges of monitoring degradation in the oil and paper insulations of a power transformer. Different signal processing and computational techniques recently developed for this purpose were discussed.

The participants benefited from the enlightening and motivating lecture and hands-on sessions of the FDP, as reflected in their feedback and spontaneous interactions.

Some glimpses of the FDP are attached herewith.



Session ongoing by Dr. Arijit Baral , Dated: 23/02/2024





Session by Mr. Ayan Dey, Dated: 21/02/2024



Felicitation of Dr. Amitava Chatterjee, Dated: 19/02/2024

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"Recent Development of Formalin Fish Sensor using Graphene"
9th November 2023 from 11AM Onwards

Objective: Latest innovations and developments in Aquaculture

Speaker: Prof. Dr. Hemen Kalita, Department of Physics, Gauhati University.

Venue: Smart Room 220, Narula Institute of Technology

No: of participants: 72

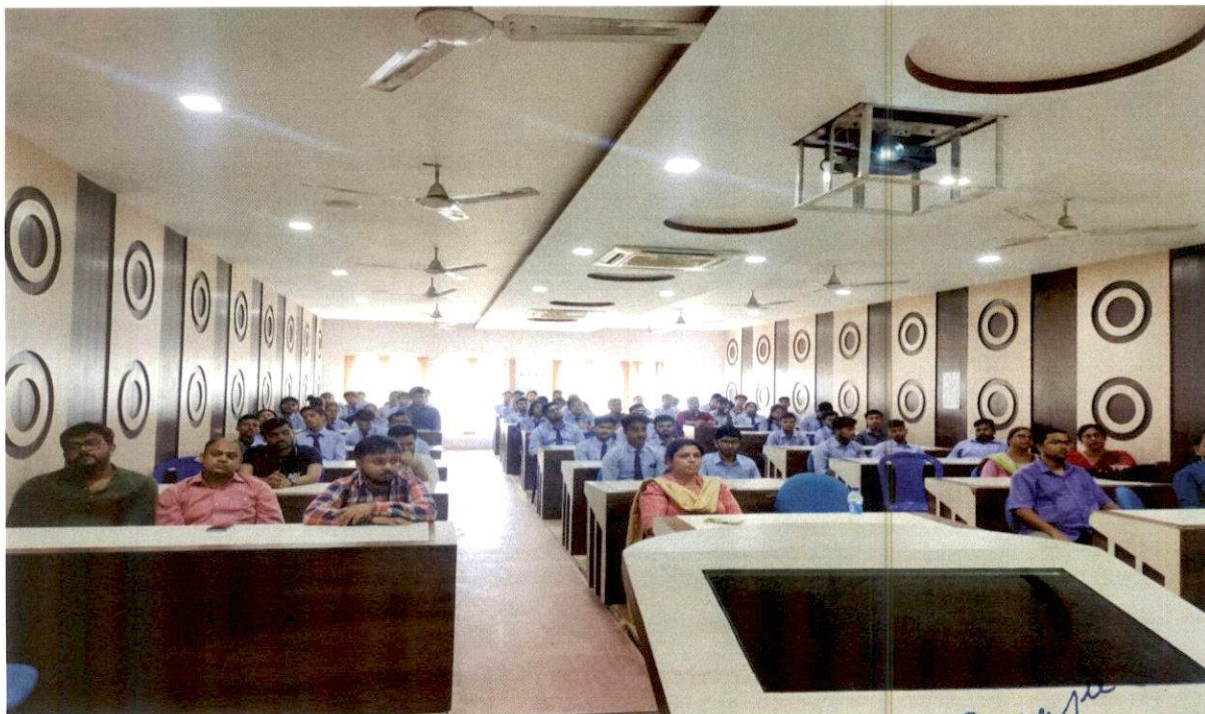
Outcome: Students learned on how a laboratory based Formalin fish sensor was commercialised in the Fish market of Assam, solution for the societal problem presented was an eye opening session for the students.

Description of the event:

The Department of Electrical Engineering in collaboration with EDC has organised organising a one Day Invited Talk on "Recent Development of Formalin Fish Sensor using Graphene" on 9th November 2023 from 11AM Onwards. The Talk was developed by Prof. Dr. Hemen Kalita, Department of Physics, Gauhati University.

Dr. Hemen Kalita has completed his PhD degree from IIT Bombay and is now a very well known researcher in the field of Application of Graphenes in Sensors. He has received many awards and funds from the reputed Government Agencies.

The talk was attended by all the faculty and staff members and students. The students of Post graduate and B.Tech were very much motivated by knowing the research work on Graphene. How a laboratory based Formalin fish sensor was developed and now it is commercialised in the Fish market of Assam has been discussed during the session.



Session ongoing: Dated: 09/11/2023

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Session ongoing: Dated: 09/11/2023

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**"Two day National Conference on Contemporary Issues and Challenges in
Management and Technology"
NACMAT2023
22nd and 23rd November, 2023.**

Objective: The objective of the conference was to bring together an interdisciplinary team of researchers to share their ideas, information and research on recent trends in management and technology

Outcome: Latest technology and management development schemes were discussed.

No: of participants: 100

Venue: Narula Institute of Technology

Speaker:

Dr. Bachaspati Roy, Retired Scientist, Business Executive, ICI, USA

Dr. Asish Nath, Professor, Tripura University

Dr. Indranil Mukherjee, Professor, MAKAUT

Dr. Pinakpani Pal , ISI Kolkata

Dr. Tarun Kabiraj, ISI Kolkata

Dr. Satyajit Dhar, Professor, University of Kalyani

Dr. Ramendra Singh, Professor, IIM Calcutta

The **Narula Institute of Technology** organised a **"Two day National Conference on Contemporary Issues and Challenges in Management and Technology – NACMAT2023" on 22nd and 23rd November, 2023**. The objective of the

conference was to bring together an interdisciplinary team of researchers to share their ideas, information and research on recent trends in management and technology. The inaugural Programme started with the lighting of the lamp by the dignitaries, followed by short speeches delivered by the guests. After the Inaugural Programme an abstract volume of the conference was published.

In this conference 3 invited speakers, three lead speakers and 35 paper presenters came from across India and presented their papers. **Total 100 participants joined the conference. Out of these, 50 were students from NiT and other colleges in Kolkata and outside and the rest of them are faculty members and research scholars.** There were four technical sessions that took place in two days. The second day after completion of the technical session a small cultural programme was organized by the students of the Department on the theme "Cultural diversity and Unity".

Few pictures are attached herewith for your kind reference.

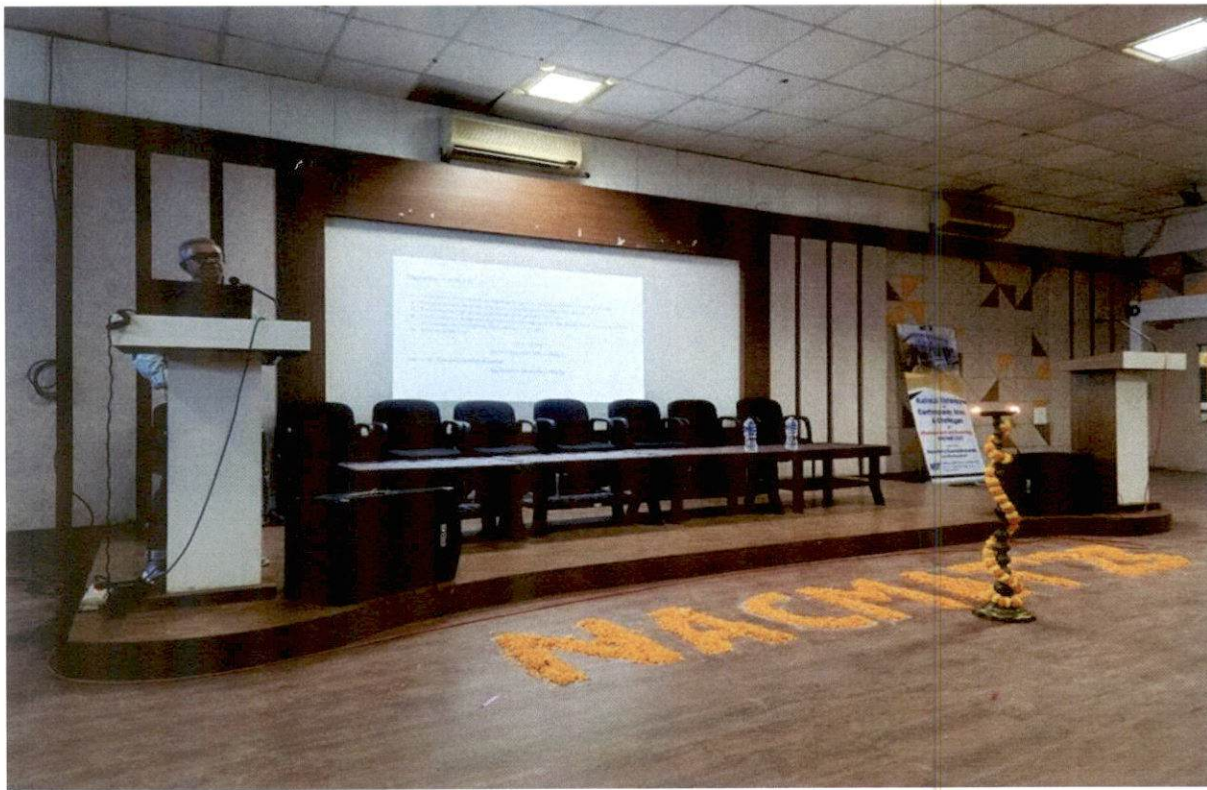


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Session ongoing, Dated: 23/11/2023



Session ongoing, Dated: 22/11/2023





Session ongoing, Dated: 22/11/2023

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**NATIONAL CONFERENCE ON CONTEMPORARY
ISSUES AND CHALLENGES IN MANAGEMENT
AND TECHNOLOGY (NACMAT-2023)**

**NOVEMBER
22ND – 23RD
2023**

Dr. Bachaspati Roy
Retired Scientist
and Business Executive
ICI Ltd, Delaware , USA

Dr. Ashish Nath
Professor,
Department of Economis
Tripura University
(A Central University)

Dr. Indranil Muherjee
Professor,
School of Management Sciences
MAKAUT, WB

Dr. Pinakpani Pal
Associate Professor
Indian Statistical Institute, Kolkata

Dr. Ramendra Singh
Professor of Marketing
Indian Institute of Management Calcutta

Dr. Satyajit Dhar
Professor
University of Kalyani

Dr. Tarun Kabiraj
Professor
Indian Statistical Institute ,Kolkata

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Session Dated: 22/11/2023

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