



NATIONAL CONFERENCE  
EATS-2024



3<sup>RD</sup>

## NATIONAL CONFERENCE ON EMERGING APPROACHES TOWARDS SUSTAINABILITY

(NCEATS 2024)

05TH APRIL - 06TH APRIL 2024

Organized by

GREATER KOLKATA COLLEGE OF  
ENGINEERING AND MANAGEMENT, BARUIPUR

In association with

INSTITUTION OF ELECTRONICS AND  
TELECOMMUNICATION ENGINEERS (IETE), ISF, GKCEM

### ABOUT THE CONFERENCE:

The 3rd National Conference on Emerging Approaches Towards Sustainability (NCEATS-2024) will be organized by GKCEM which is scheduled to be held in virtual mode during 5th April to 6th April 2024. This is a multi-institutional effort to exemplify the multi-disciplinary research like intelligent computing and advanced communication systems, IoT, Green energy design, computations, computers to interact and disseminate information on the latest development in civil, mechanical, electrical and electronics engineering in both academics and industry to establish sustainability. NCEATS-2024 will be a national forum for professional, industrialist, researchers, academicians and students from various engineering and science fields with multi-disciplinary interests.

Member of 3rd National Conference on Emerging Approaches Towards Sustainability (NCEATS-2024):

#### Chief Patron:

Sardar Taranjit Singh, MD, JIS Group

#### Patron:

Mr. Simarpreet Singh, Director, JIS Group

Mr. T. K. Ghosh, Director, GKCEM & Techno India Group

#### Mentor:

Prof (Dr.) G. L. Datta, BOG Chairman, GKCEM and Retired Professor, IIT KGP

#### General Chair:

Prof (Dr.) Mahuya Das, Principal, GKCEM

#### Convenor:

Dr. Pijush Dutta, Assistant Professor, Department of Electronics and Communication Engineering, GKCEM

#### Co-Convenor:

Dr. Anubrata Mondal, Assistant Professor EE-GKCEM  
Mr. Subhojit Chattaraj, Assistant Professor CE-GKCEM

#### LAST SUBMISSION DATE

22nd MARCH, 2024

#### ACCEPTANCE/REJECTION

25th MARCH, 2024

#### REGISTRATION DEADLINE

30th MARCH, 2024

#### FINAL PAPER DUE

02nd APRIL, 2024

#### REGISTRATION FEES:

For faculties:

1000 INR

For Industry person:

1500 INR

For Foreign Author:

25 \$



### Advisory Committee:

Prof. Amlan Chakrabarti, Professor and Director, A.K. Choudhury School of Information Technology, University of Calcutta; Head, IT and Technology Innovation Cell, Dept. of Higher Education, Govt. of West Bengal.

Prof. Pradip Kumar Maji, Associate Professor, Dept. of Polymer and Process Engineering, IIT Roorkee.

Prof. H.N Chanakya, Ex-Chief Scientist, CET, IISc.

Prof. Sadhan Kumar Ghosh, Professor, Mechanical Engineering Department, Jadavpur University, Ex-Dean Faculty of Engineering and Technology, Jadavpur University.

Prof. Mukul Chandra Bora, Director, Dibrugarh University Institute of Engineering and Technology DUIET.

Prof. Kaushik Bandyopadhyay, Department of Construction Engineering, Jadavpur University .

Prof. Kamalika Ghosh, Former Director, School of Illumination Science, Engg. & Design, Jadavpur University.

Prof. Debasish Chatterjee, Professor, Department of Electrical Engineering, Jadavpur University .

Prof. Shaymal Kumar Ghosh, Ex-Professor, Department of Electrical Engineering, Jadavpur University.

Dr. Indrajit Ghosal, Associate Professor, School of Computer Science & Engineering, Poornima University.

Prof. Debasish De, Professor, Department of Computer Science & Engineering, MAKAUT, WEST BENGAL.

Dr. Anirudhha Nag, Associate Professor, Techno India Group, Secretary, IETE, Ex-Chairman, CSI.

Dr. Jyoti Sekhar Banerjee, Head, CSE (AI & ML), Bengal Institute of Technology, Secretary, CSI Kolkata.

### Keynote Speaker:

Prof. Amlan Chakrabarti, Professor and Director, A.K. Choudhury School of Information Technology, University of Calcutta; Head, IT and Technology Innovation Cell, Dept. of Higher Education, Govt. of West Bengal.

### Publication:

Publication Chair: Prof. Pradip Kumar Maji, Associate Professor, Department of Polymer and Process Engineering, IIT Roorkee.

Publication Co-Chair: Dr. Anubrata Mondal, Assistant Professor EE-GKCEM & Dr. Sk. Tanbir Islam, Assistant Professor, ME-GKCEM.

Dr. Pijush Dutta, Assistant Professor ECE-GKCEM.

Dr. Biswajit Gayen, Assistant Professor BS&HU-GKCEM

Mr. Sandip Sarkar, Assistant Professor, CE-GKCEM

### Organizing Committee:

Dr. Anubrata Mondal, Assistant Professor EE-GKCEM

Dr. Pijush Dutta, Assistant Professor ECE-GKCEM

Dr. Sk. Tanbir Islam, Assistant Professor ME-GKCEM

Mr. Rudrajit Datta, Assistant Professor EE-GKCEM

Mr. Rajarshi Chakraborty, Assistant Professor ME-GKCEM

Mr. Subhojit Chattaraj, Assistant Professor CE-GKCEM

Mr. Gopal Chakraborty, Assistant Professor BS&H-GKCEM

### Technical Committee:

TPC Chair: Mr. Subhojit Chattaraj, Assistant Professor, CE GKCEM

TPC Co-Chair: Dr. Anubrata Mondal, Assistant Professor, EE GKCEM

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Dr. Biswajit Gayen, Assistant Professor BS&H GKCEM

Dr. Somdatta Paul, Assistant Professor, ECE, GKCEM

Dr. Tanbir Islam, Assistant Professor ME GKCEM

### Media and Publicity:

Mr. Rajarshi Chakraborty, Assistant Professor ME-GKCEM

Mr. Gour Gopal Jana, Assistant Professor ECE-GKCEM

Mr. Niratyay Biswas, Assistant Professor ECE-GKCEM

Mr. Gopal Chakraborty, Assistant Professor BS&HU-GKCEM

### Finance:

Mr. Sourav Chatterjee, Registrar, GKCEM

Mr. Debapriya Dutta, Accounts Section, GKCEM

### Registration and Hospitality:

Mrs. Arjama Ghosh Chakraborty, Secretary to Principal, GKCEM

Mrs. Kakali Das, Assistant Professor, CSE-GKCEM

Mr. Niratyay Biswas, Assistant Professor ECE-GKCEM (Food Distribution).

Mr. Soumik Mahato, Assistant Professor ME GKCEM

### Video and Photography:

Mr. Shantanu Naskar, Assistant Professor, EE-GKCEM

Mr. Sandeepan Saha, Assistant Professor, CE-GKCEM

### Certificate Generation:

Mr. Rajarshi Chakraborty, Assistant Professor ME-GKCEM

Mr. Gour Gopal Jana, Assistant Professor ECE-GKCEM

Mr. Gopal Chakraborty, Assistant Professor BS&HU-GKCEM

Mr. Peeraj Mazumder, Assistant Professor ME-GKCEM



# Tracks and Topics

## COMPUTATIONAL INTELLIGENCE INDUSTRIE 4.0

COMPUTATIONAL INTELLIGENCE  
MULTI-AGENT SYSTEM  
CHAOS THEORY  
EVOLUTIONARY COMPUTATION  
EXPERT SYSTEM  
NEURAL NETWORK  
PATTERN RECOGNITION  
PROBABILISTIC REASONING  
REINFORCEMENT LEARNING  
ROBOTICS

## INDUSTRIE 4.0

SENSORS, EMBEDDED SYSTEMS, IOT  
COMPONENTS  
ROBOTICS, PARTICULARLY HUMAN-  
ROBOT-INTERACTION  
USER INTERFACES INCLUDING  
SOFTWARE AND HARDWARE DEVICES  
FOR INTERACTING WITH SYSTEMS  
CYBER SECURITY REGARDING IOT  
SYSTEMS AND SAFETY SUCH AS  
FUNCTIONAL SAFETY OF IOT  
COMPONENTS  
POSITIONING AND IDENTIFICATION  
SYSTEMS  
WIRELESS NETWORK TECHNOLOGY  
NEW METHODS OF WORK  
CLOUD AND FOG COMPUTING  
ARTIFICIAL INTELLIGENCE  
INDUSTRIE 4.0 BUSINESS MODELS  
CYBER PHYSICAL SYSTEMS  
DISTRIBUTED COMPUTING

### Contact Details

*For more Information, Please Contact*

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## ADVANCED COMPUTING IN ELECTRICAL POWER SYSTEM, CONTROL SYSTEM AND RENEWABLE ENERGY

INTELLIGENT VEHICULAR TECHNOLOGY  
OPTIMAL AND ADAPTIVE CONTROL  
LINEAR, NON-LINEAR AND ROBOTIC  
CONTROL SYSTEMS  
RENEWABLE, HYBRID AND GREEN  
ENERGY DESIGN  
ELECTRICAL MACHINES, DRIVES AND  
CONTROL  
POWER GENERATION, TRANSMISSION  
AND DISTRIBUTION  
SMART GRID TECHNOLOGIES AND  
APPLICATIONS  
PRODUCT DESIGN, MODELING AND  
SIMULATION  
POWER SYSTEM ENGINEERING AND ITS  
APPLICATIONS  
SMART LIGHTING AND ILLUMINATION  
TECHNOLOGY

## TECHNOLOGY TOWARDS SUSTAINABLE MATERIALS

NANO TECHNOLOGY  
SMART MATERIALS  
COMPOSITES  
MATERIAL PROCESSING  
WASTE MANAGEMENT

### Key Dates

*Last date of Submission: 22nd March, 2024*

*Notification for Acceptance /Rejection: 25th March, 2024*

*Last final camera-ready Papers: 28th March, 2024*

*Registration Deadline: 30th March, 2024*

*For further information*

*Conference website:*

<https://gkcem.ac.in/nceats2024/>

*Paper Submission Link:*

<https://cmt3.research.microsoft.com/NCEATS2024/Settings/Index>