I am pleased to present the seventh newsletter of the Centre for Continuing Education (CCE) to the IIT Kanpur community. I am glad to report again that several Short Term Courses, Workshops, and Conferences were successfully conducted in online and offline mode during the period between July to December 2022. All these events and activities have been made possible by the active support and cooperation of the IITK Faculty, staff, and community. We profusely thank them for their services and place the same on record.

A total of fifty two (52) events were conducted under the aegis of the CCE.

We will make continued efforts to offer courses from IITK Faculty during the first half of 2023. I am looking forward to reporting our activities again in the next newsletter. Take care and stay safe.
47 Short Term Courses
03 Conferences
02 Symposium
Short Term Courses

01 01.07.2022 - 30.04.2023
Foreign Language Program 2022-2023 (Online)
Prof. B. V. Rathish Kumar
Department of Mathematics and Statistics, IIT Kanpur

02 02.07.2022 - 23.07.2022
IIT Kanpur Advanced Training School on OFTS System Design and Analysis for 6G Wireless Technology using PYTHON and MATLAB
Prof. Aditya K. Jagannatham
Department of Electrical Engineering, IIT Kanpur

03 02.07.2022
The evolution of our planet Earth
Prof. Debajyoti Paul
Department of Earth Sciences, IIT Kanpur

04 10.07.2022 - 10.08.2022
Introduction to Infrastructure Asset Management
Prof. Sudhir Mishra
Department of Civil Engineering, IIT Kanpur

05 10.07.2022 - 12.07.2022
Understanding of Science & Technology for Academic Development (USTAD) - 2022
Prof. Amey Karkare
Department of Computer Science Engineering, IIT Kanpur

06 11.07.2022 - 15.07.2022
Geodetic Surveying
Prof. Onkar Dikshit
Department of Civil Engineering, IIT Kanpur

07 21.07.2022 - 23.07.2022
Electromagnetic Interference and Compatibility (EMI/EMC) Techniques for Industrial and Medical Applications
Prof. M. Jaleel Akhtar
Department of Electrical Engineering, IIT Kanpur

08 29.07.2022
Indian Philosophy's Day
Prof. Sushruth Ravish
Department of Humanities and Social Sciences, IIT Kanpur

09 01.08.2022 - 30.11.2022
Internship Program for National Centre for Geodesy
Prof. Onkar Dikshit
Department of Civil Engineering, IIT Kanpur

10 10.08.2022
Microscopy of Soft Matters
Prof. Rahul Mangal
Department of Chemical Engineering, IIT Kanpur
**IITK Intensive Training School (ITS) on PYTHON for Data Science and Data Analytics**

13.08.2022 - 26.08.2022

Prof. Aditya K. Jagannatham  
Department of Electrical Engineering, IIT Kanpur

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**Classical Electromagnetism-2 (Magnetostatics)**

15.08.2022 - 31.12.2022

Prof. B. V. Rathish Kumar  
Department of Mathematics and Statistics, IIT Kanpur

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**Supporting the ICCC Studies and Actions**

20.08.2022 - 10.10.2022

Prof. Prof. Pradip Swarnakar  
Department of Humanities and Social Sciences, IIT Kanpur

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**IITK Intensive Training School (ITS) on Machine Learning, Neural Networks and Deep Learning**

10.09.2022 - 30.09.2022

Prof. Aditya K. Jagannatham  
Department of Electrical Engineering, IIT Kanpur

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**IEEE MTT-S Women in Microwaves Workshop**

17.09.2022

Prof. M. Jaleel Akhtar  
Department of Electrical Engineering, IIT Kanpur

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**Strengthening of Positioning Infrastructure**

19.09.2022 - 30.09.2022

Prof. Onkar Dikshit  
Department of Civil Engineering, IIT Kanpur

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**Regulatory Certification Program on Renewable Energy: Economics, Policy and Regulation**

07.10.2022 - 23.10.2022

Prof. Anoop Singh  
Department of Industrial & Management Engineering, IIT Kanpur

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**Towards Sustainable and Resilient Power System**

17.09.2022

Prof. Alok Ranjan  
Department of Electrical Engineering, IIT Kanpur

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**JSW Smart Manufacturing**

17.10.2022 - 26.04.2023

Prof. Raghu Nandan Sengupta  
Department of Industrial & Management Engineering, IIT Kanpur

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**Data Analysis in Criminal Justice**

01.11.2022 - 20.01.2023

Prof. Prof. Arvind Verma  
Department of Criminal Justice Engineering, IIT Kanpur
23 04.11.2022- 05.11.2022
Technocruise -Kanpur
Prof. Amitabha Bandyopadhyay
Department of Biological Sciences & Bioengineering (BSBE), IIT Kanpur

24 04.11.2022 - 03.11.2023
Advanced Certification Programme in Cyber Security and Cyber Defense
Prof. Sandeep Shukla
Department of Computer Science Engineering, IIT Kanpur

25 05.11.2022
Flexible Electronics: Product Case Studies on Sensors, OLED and PV-2022
Prof. S Sundar K Iyer
Department of Electrical Engineering, IIT Kanpur

26 07.11.2022- 11.11.2022
Technocruise -Nanded
Prof. Amitabha Bandyopadhyay
Department of BSBE, IIT Kanpur

27 10.11.2022 - 12.11.2022
Steelmaking & Refractories
Prof. Dipak Mazumdar
Department of Materials Science and Engineering, IIT Kanpur

28 14.11.2022 - 18.11.2022
UAV Data Acquisition & Processing
Prof. Rajeev Sinha
Department of Earth Sciences Engineering, IIT Kanpur

29 15.11.2022 - 26.11.2022
AICTE ATAL Program on Stress Management
Prof. Prishati Raychowdhury
Department of Civil Engineering, IIT Kanpur

30 16.11.2022 - 25.11.2022
Mitigating Climate Change while Harnessing Renewable Energy
Prof. J Ramkumar
Department of Mechanical Engineering, IIT Kanpur

31 16.11.2022 - 17.11.2022
Workshop on Social Aspects of India Energy Transitions: Enablers, Barriers and Opportunities
Prof. Prof. Pradip Swarnakar
Department of Humanities and Social Sciences, IIT Kanpur

32 22.11.2022 - 31.05.2023
Behavioral Training for Client Facing Employees of KESCO
Prof. Amit Shukla
Department of Industrial & Management Engineering, IIT Kanpur

33 25.11.2022- 26.11.2022
Technocruise -Kota
Prof. Amitabha Bandyopadhyay
Department of BSBE, IIT Kanpur

34 03.12.2022 - 16.12.2022
IIT Kanpur PYTHON and MATLAB/OCTAVE-Based Winter Training School in 5G Wireless Technologies: Massive MIMO, mmWave MIMO, Spatial Modulation
Prof. Aditya K. Jagannatham
Department of Electrical Engineering, IIT Kanpur
35 03.12.2022 - 04.12.2022
Technocruse - Sonepath

Prof. Amitabha Bandyopadhyay
Department of Biological Sciences & Bioengineering (BSBE), IIT Kanpur

36 05.12.2022 - 09.12.2022
Multiphase Combustion: Theory and Modelling

Prof. Ashoke De
Department of Aerospace Engineering, IIT Kanpur

Karyashala (Mechatronics and Microfabrication)

Prof. J Ramkumar
Department of Mechanical Engineering, IIT Kanpur

Prof. Sarvesh Mishra
Department of Mechanical Engineering, IIT Kanpur

38 07.12.2022
Vigyan Jyoti Program Lab Visit

Prof. B. V. Rathish Kumar
Department of Mathematics and Statistics, IIT Kanpur

Cardiovascular & Pulmonary Research Workshop

Prof. B. V. Rathish Kumar
Department of Mathematics and Statistics, IIT Kanpur

5G and Beyond: What is next?

Prof. Abhishek Kumar Gupta
Department of Electrical Engineering, IIT Kanpur

Prof. Adrish Banerjee
Department of Electrical Engineering, IIT Kanpur

Professional Certificate Program in Ethical Hacking And Penetration Testing

Prof. Sandeep Shukla
Department of Computer Science Engineering, IIT Kanpur

42 17.12.2022
Introduction to Supercomputing

Prof. Preeti Malakar
Department of Computer Science Engineering, IIT Kanpur

Technocruse - Berhampur

Prof. Amitabha Bandyopadhyay
Department of Biological Sciences & Bioengineering (BSBE), IIT Kanpur

44 18.12.2022
TOSC-Phase-1

Prof. Amitabha Bandyopadhyay
Department of Biological Sciences & Bioengineering (BSBE), IIT Kanpur

45 19.12.2022
Technocruse - Sagar

Prof. Amitabha Bandyopadhyay
Department of Biological Sciences & Bioengineering (BSBE), IIT Kanpur

46 25.12.2022 - 25.02.2023
Design and Development of Substation Inspection Robots

Prof. Bishak Bhattacharya
Department of Mechanical Engineering, IIT Kanpur

Training Program on Heat & Material Balance

Prof. Dipak Mazumdar
Department of Materials Science and Engineering, IIT Kanpur
Conferences

01 19.09.2022 - 23.09.2022
Annual Conference on Quantum Condensed Matter (QMAT 2022)
Late Prof. Amit Dutta
Department of Physics, IIT Kanpur
Prof. Amit Agarwal
Department of Physics, IIT Kanpur
Prof. Arijit Kundu
Department of Physics, IIT Kanpur

02 08.12.2022 - 10.12.2022
COPEN-12
Prof. J Ramkumar
Department of Mechanical Engineering, IIT Kanpur
Prof. Mohit Law
Department of Mechanical Engineering, IIT Kanpur

International Conference on Physical and Mathematical Modelling in Iron and Steelmaking in honour of Prof. Dipak Mazumdar
Prof. Amrendra Singh
Department of Materials Science and Engineering, IIT Kanpur
Prof. Rahul Sarkar
Department of Materials Science and Engineering, IIT Kanpur

Symposium

01 05.11.2022 - 07.11.2022
In Memory of Profs. P Dutt, A Lal, S Dutta
Prof. Mohua Banerjee
Department of Mathematics & Statistics, IIT Kanpur

Recent Trends in Cancer Research and Precision Medicine
Prof. Bushra Ateeq
Department of BSBE, IIT Kanpur
Prof. J. Ramkumar  
*Professor, Department of ME & Design*  
*Indian Institute of Technology Kanpur*

Prof. Ramkumar has taught at the Department of Mechanical Engineering and Design at Indian Institute of Technology Kanpur for last 20 years. He is an INAE fellow. He studies micro and nano manufacturing, sustainable and cheap product and process development. Prof. Ramkumar reviews 20+ journals, has 80+ patents and 250+ publications or his innovative and useful research. He has been a consultant for several projects under the DRDO, DST, BIRAC, HAL, and others; and has used over Rs. 25 crores to create technologies at IIT Kanpur. Imagineering Lab, Tinkering Lab, Maker’s space, MedTech Lab, and RuTAG (Rural Technology Action Group) at IIT Kanpur are all his brain child that provides an ecosystem to cater to the requirements of needful users be it students, scholar, faculties or for project work across the country. He has done 150+ seminars on NPTEL, MOOCs, and FDPs to inspire Indian students to pursue research.
IIT Kanpur is organizing a Vigyan Jyoti programme, funded by Department of Science and Technology (DST), India during last few years. This is a holistic program to encourage and inspire female students to pursue higher education and thus, become self-reliant and independent in life. The primary aim of the program is to create gender enabling environment and strengthen the eco-system. As early grooming reaps huge rewards, promoting interest in science and technology amongst girl students in the early education years will be very beneficial. Fifty students of Class XI, science stream, from region Lucknow district Kanpur Nagar will be selected.

**Objective**

- To encourage and inspire girl students to pursue higher education and thus, become self-reliant and independent.
- To facilitate conducive/enabling environment from School level to College Level and from research level to job level.
- To ensure easy access to science and technology information and knowledge sharing.
SURGE

Students-Undergraduate Research Graduate Excellence (SURGE) program, is an approved internship Program of IIT Kanpur, which runs under the aegis of Centre for Continuing Education (CCE), IIT Kanpur. This program provides an opportunity to undergraduate and M.Sc first year students of IITK, Non-IITK and also to the students of SAARC countries, with an objective of giving in-hand experience of technical learning in their field of research.

This year SURGE-2022 program was conducted in online mode from second week of May to July 2022. A total of 232 students (167 IITK, 64 Non-IITK and 01 student under SAARC category) successfully completed the internship. SURGE-2022 program also provides a stipend to the participants selected under the Institute Funded category and Project Funded category. This program has also a provision of awarding the participants who produce exceptional quality research work. They are given a cash award under different award categories along with a commendation certificate. However, all the successful participants of this program are given a participation certificate.
CCE Staff

Mr. Gyanendra Singh

Mrs. Sanno Devi Kushwaha

Mr. Ram Naresh Chaurasiya

Mr. Sudesh Kumar Gupta

Mr. Vinay Kumar

Mr. Yogendra Singh

Mr. Abhishek Singh

Mr. Rajesh Kumar

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