



CCE Newsletter

July-December 2022

Indian Institute of Technology Kanpur

www.iitk.ac.in/cce

Message from Head



Prof. B V Rathish Kumar

Professor, Department of Mathematics and Statistics
IIT Kanpur

I am pleased to present the eighth 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

06 11.07.2022 - 15.07.2022

Geodetic Surveying



Prof. Onkar Dikshit
Department of Civil Engineering,
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

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

03 02.07.2022

The evolution of our planet Earth



Prof. Debajyoti Paul
Department of Earth Sciences,
IIT Kanpur

08 29.07.2022

Indian Philosophy's Day



Prof. Sushruth Ravish
Department of Humanities and Social Sciences,
IIT Kanpur

04 10.07.2022 - 10.08.2022

Introduction to Infrastructure Asset Management



Prof. Sudhir Mishra
Department of Civil Engineering,
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

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

10 10.08.2022

Microscopy of Soft Matters



Prof. Rahul Mangal
Department of Chemical Engineering,
IIT Kanpur

11 13.08.2022- 26.08.2022

IITK Intensive Training School (ITS) on PYTHON for Data Science and Data Analytics



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

17 26.09.2022 - 30.09.2022

GRACE Hackweek 2 - Online



Prof. Balaji Devaraju
Department of Civil Engineering,
IIT Kanpur

12 15.08.2022 - 31.12.2022

Classical Electromagnetism-2 (Magnetostatics)



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

18 27.09.2022 - 01.10.2022

Strengthening Capacity at the District level on Air Pollution and Health



Prof. Mukesh Sharma
Department of Civil Engineering,
IIT Kanpur

13 20.08.2022 - 10.10.2022

Supporting the ICCC Studies and Actions



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

19 07.10.2022 - 23.10.2022

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



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

14 10.09.2022- 30.09.2022

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



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

20 17.09.2022

Towards Sustainable and Resilient Power System



Prof. Alok Ranjan
Department of Electrical Engineering,
IIT Kanpur

15 17.09.2022

IEEE MTT-S Women in Microwaves Workshop



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

21 17.10.2022 - 26.04.2023

JSW Smart Manufacturing



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

16 19.09.2022- 30.09.2022

Strengthening of Positioning Infrastructure



Prof. Onkar Dikshit
Department of Civil Engineering,
IIT Kanpur

22 01.11.2022- 20.01.2023

Data Analysis in Criminal Justice



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

29 15.11.2022 - 26.11.2022

AICTE ATAL Program on Stress Management



Prof. Prishati Raychowdhury
Department of Civil Engineering,
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

30 16.11.2022 - 25.11.2022

Mitigating Climate Change while Harnessing
Renewable Energy



Prof. J Ramkumar
Department of Mechanical 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

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

26 07.11.2022- 11.11.2022

Technocruise -Nanded



Prof. Amitabha Bandyopadhyay
Department of BSBE, 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

27 10.11.2022 - 12.11.2022

Steelmaking & Refractories



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

33 25.11.2022- 26.11.2022

Technocruise -Kota



Prof. Amitabha Bandyopadhyay
Department of BSBE, IIT Kanpur

28 14.11.2022 - 18.11.2022

UAV Data Acquisition & Processing



Prof. Rajeev Sinha
Department of Earth Sciences Engineering,
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

Technocruise - Sonenpath



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

37 05.12.2022 - 15.12.2022

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

39 12.12.2022 - 13.12.2022

Cardiovascular & Pulmonary Research Workshop



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

40 12.12.2022 - 14.12.2022

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

41 13.12.2022 - 31.12.2023

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

43 17.12.2022 - 18.12.2022

Technocruise - 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

Technocruise - 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

47 27.12.2022 - 28.12.2022

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

03 18.12.2022 - 19.12.2022

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

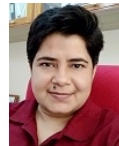
In Memory of Profs. P Dutt, A Lal, S Dutta



Prof. Mohua Banerjee
Department of Mathematics & Statistics,
IIT Kanpur

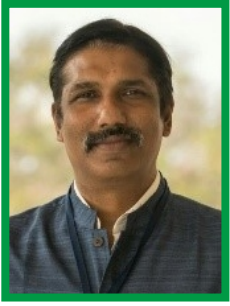
02 16.12.2022 - 18.12.2022

Recent Trends in Cancer Research and Precision Medicine



Prof. Bushra Ateeq
Department of BSBE,
IIT Kanpur

Faculty in Focus



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 on 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.



VIGYAN JYOTI

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

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



Mr. Vinay Kumar



Mrs. Sanno Devi Kushwaha



Mr. Yogendra Singh



Mr. Ram Naresh Chaurasiya



Mr. Abhishek Singh



Mr. Sudesh Kumar Gupta



Mr. Rajesh Kumar

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