

NEWSLETTER

July-December 2024

Office of Outreach Activities IIT Kanpur



Prof. Shalabh
Professor-in-Charge (OOA)

Message from PIC

“

Reskilling and upskilling have become indispensable in today's fast-evolving digital and technological landscape. Leveraging its unparalleled expertise in advanced education, emerging technologies, and academic excellence, IIT Kanpur empowers learners across diverse domains to thrive and excel in their careers.

Through its Office of Outreach Activities, IIT Kanpur offers a comprehensive range of continuing and distance education programs. These include short-term and long-term courses, workshops, online certificate programs, and internship opportunities, designed to cater to students, academics, scientists, technical staff, and professionals alike.

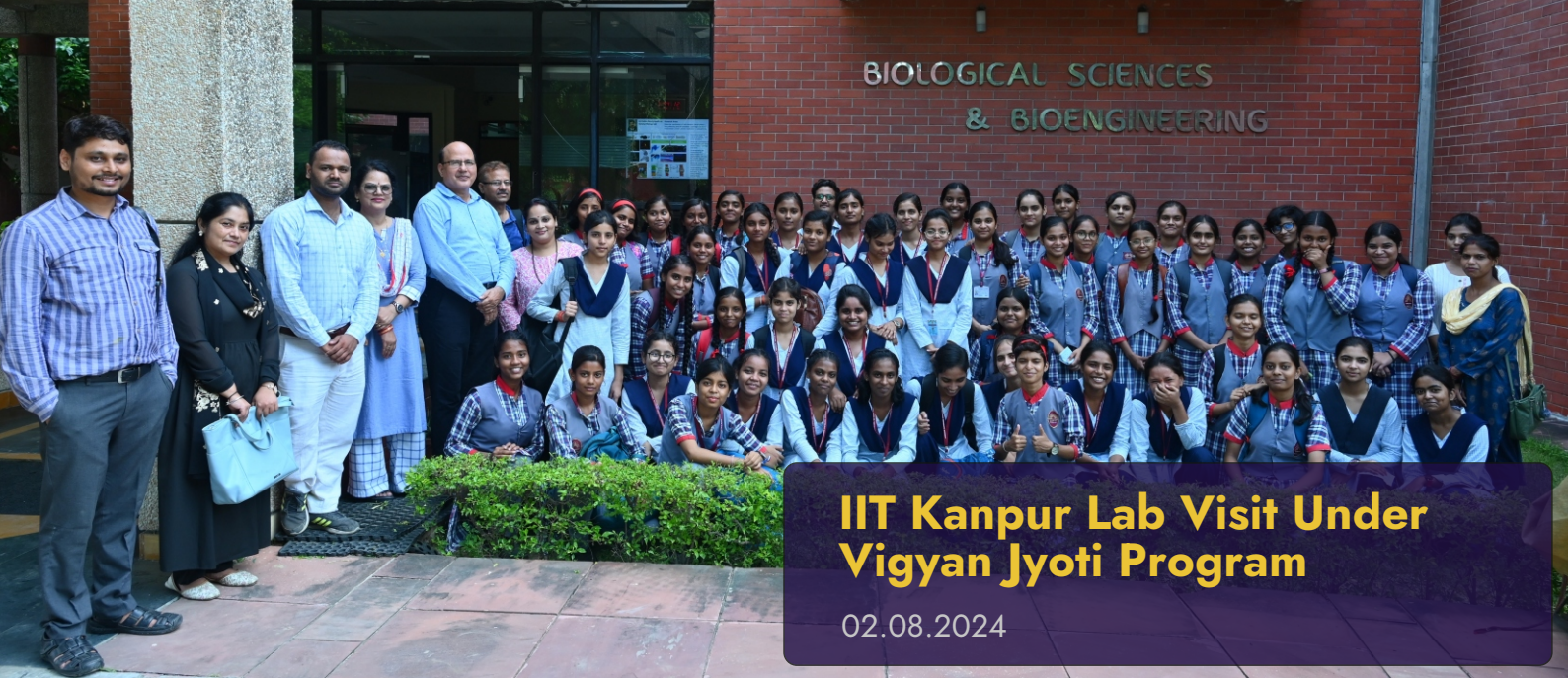
Our short-term courses are designed to enhance individual expertise and contribute to building a highly skilled workforce, driving India toward greater progress.

Our professional eMasters programs empower working professionals with cutting-edge knowledge in emerging technologies, fostering upskilling and strengthening the corporate sector.

Through seminars, conferences, and workshops, we provide global exposure, ensuring learners—students and academicians alike—stay updated with deep, domain-specific insights.

”





IIT Kanpur Lab Visit Under Vigyan Jyoti Program

02.08.2024



Chemistry Lab

Thanks to:

Prof. J.K. Bera
Dr. Namrata Singh
Dr. Amiya Kumar Medda
Ms. Pooja Baliyan
Ms. Manisha Rani Paul



Computer Centre

Thanks to:

Prof. Nishanth N. Nair
Mr. Anando G Chatterjee
Mr. Akshay Kumar Sharma
Mr. Ashish Verma
Mr. Abhay Verma



Flight Lab

Thanks to:

Prof. G. M. Kamath
Mr. Animesh Porwal
Mr. Deepak Kashyap
Mr. Mohit Kumar



Physics Lab

Thanks to:

Prof. Aditya Kelkar
Mr. A. S. Rathor
Mr. Manoj Kumar
Mr. Rajendra



The Mehta Family Centre for Engineering in Medicine

Thanks to:

Prof. Amitabha Bandyopadhyay
Prof. Jonaki Sen
Prof. Shanu Jain
Ms. Shivani, Mr. Rohit & Student Volunteers

IIT Kanpur Lab Visit for Students of Jawahar Navodaya Vidyalaya

06.09.2024



Chemistry Lab

Thanks to:

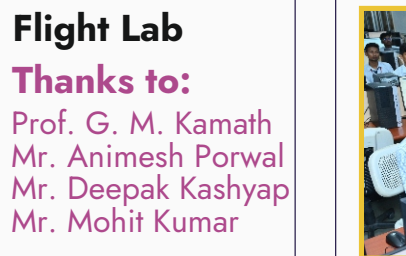
Prof. Gurunath Ramanathan
Dr. Namrata Singh
Dr. Amiya Kumar Medda
Ms. Pooja Baliyan
Ms. Manisha Rani Paul



Computer Centre

Thanks to:

Prof. Nishanth N. Nair
Mr. Anando G Chatterjee
Mr. Akshay Kumar Sharma
Mr. Ashish Verma
Mr. Abhay Verma



Flight Lab

Thanks to:

Prof. G. M. Kamath
Mr. Animesh Porwal
Mr. Deepak Kashyap
Mr. Mohit Kumar



Maths Lab

Thanks to:

Prof. B.V. Rathish
Kumar



Physics Lab

Thanks to:

Prof. Aditya Kelkar
Mr. A. S. Rathor
Mr. Manoj Kumar
Mr. Rajendra

Five Day Training Programme of TGT Science of PM Shri Schools Teachers (NVS)

10.12.2024 - 14.12.2024



Students-Undergraduate Research Graduate Excellence (SURGE)

14.05.2024 - 14.07.2024

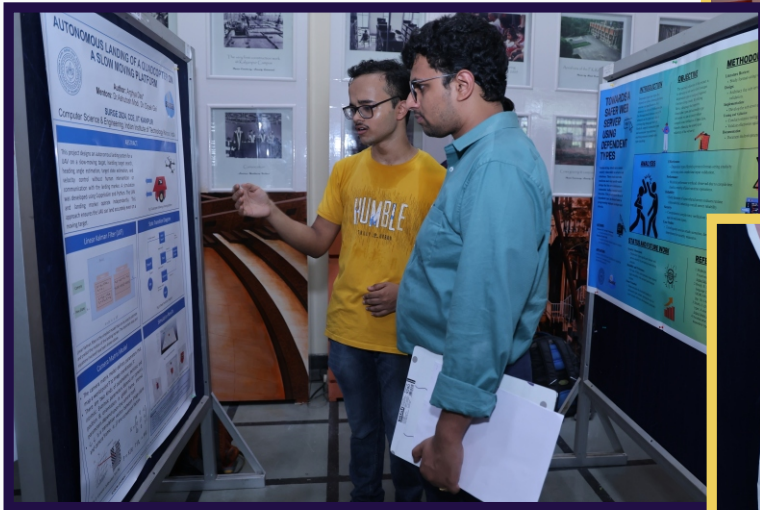
Inaugural Event



Students-Undergraduate Research Graduate Excellence (SURGE)

14.05.2024 - 14.07.2024

Poster Presentation



Students-Undergraduate Research Graduate Excellence (SURGE)

14.05.2024 - 14.07.2024

Farewell Ceremony



List of Events

Short Term Course

01 Foreign Language Program

01.07.2024 - 30.04.2025

Coordinator



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

Online Short Term Course

02 Online Summer School on GNSS

01.07.2024 - 03.07.2024

Coordinator



Prof. Balaji Devaraju
Dept. of Civil Engineering IIT Kanpur

Internship

03 Implementation of stable diffusion for image background generation

01.07.2024 - 15.10.2024

Coordinator



Prof. Tushar Sandhan
Dept. of Electrical Engineering IIT Kanpur

Internship

04 Modeling and interpretation of gravity anomalies to delineate dyke Structures

01.07.2024 - 25.08.2024

Coordinator



Prof. Animesh Mandal
Dept. of Earth Science IIT Kanpur

Online Internship

05 Development of Soil Moisture Product Utilizing GNSS Signals

01.07.2024 - 31.08.2024

Coordinator



Prof. Onkar Dikshit
Dept. of Civil Engineering IIT Kanpur

Workshop

06 Transition of Indian Metros: Automated, Intelligent and Sustainable solution for Energy Savings

03.07.2024 - 05.07.2024

Coordinator



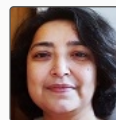
Prof. Gururaj Mirle Vishwanath
Dept. of Electrical Engineering IIT Kanpur

Workshop

07 Art Appreciation: Blockmaking and Printing

07.07.2024 - 07.07.2024

Coordinator



Prof. Shatrupa Thakurta Roy
Dept. of Humanities and Social Sciences
IIT Kanpur

International Conference

08 International Conference in Organometallic Chemistry-2024

15.07.2024 - 19.07.2024

Coordinator



Prof. Jitendra K Bera
Dept. of Chemistry IIT Kanpur

Seminar

09 Magmatic Processes in the Indian Shield: messages from Earth's deep interior and metallogeny from studying carbonatites and associated igneous rocks

19.07.2024 - 20.07.2024

Coordinator



Prof. Debajyoti Paul
Dept. of Earth Sciences IIT Kanpur

Workshop

10 Smart Transportation for Reducing Emissions and Congestion in Indian Cities (STREC)

20.07.2024

Coordinator



Prof. S N. Tripathi
Dept. of Civil Engineering IIT Kanpur

Short Term Course

11 Big Data and Data Analytics

22.07.2024 - 26.07.2024

Coordinators



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



Prof. Shankar Prawesh
Dept. of Management Sciences IIT Kanpur

Online Short Term Course

12 Flexible Electronics - 2024

24.07.2024 - 26.07.2024

Coordinator



Prof. Baquer Mazhari
Dept. of Electrical Engineering IIT Kanpur

Workshop

13 IIT Kanpur Lab Visit Under Vigyan Jyoti Program

02.08.2024

Coordinator



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

Short Term Course

14 The Emerging Development in Criminology: The Role of Economics, Data, Policy and Cyber Security

19.08.2024 - 29.08.2024

Coordinator



Prof. Vimal Kumar
Dept. of Economic Sciences IIT Kanpur

Conference

15 ASIAN CONFERENCE ON GAS TURBINES 2024

21.08.2024 - 23.08.2024

Coordinator



Prof. Abhijit Kushari
Dept. of Aerospace Engineering IIT Kanpur

Short Term Course

16 Training Program on Artificial Intelligence and Machine Learning

27.08.2024 - 31.08.2024

Coordinators



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



Prof. Shankar Prawesh
Dept. of Management Sciences IIT Kanpur

Workshop

17 Design and Implementation of Smart Water Systems

30.08.2024 - 31.08.2024

Coordinators



Prof. Abhijith. G. R.
Dept. of Civil Engineering IIT Kanpur



Prof. Purnendu Bose
Dept. of Civil Engineering IIT Kanpur



Prof. Manoj Kumar Tiwari
Dept. of Civil Engineering IIT Kanpur

Internship

18 Research Internship

30.08.2024 - 29.10.2024

Coordinators



Prof. G. Anantharaman
Dept. of Chemistry IIT Kanpur

Online Short Term Course

19 IIT Kanpur Certificate Program on PYTHON+ MATLAB/ OCTAVE-Based Simulation and Design of 5G/ 6G Wireless Technologies

01.09.2024 - 27.09.2024

Coordinator



Prof. Aditya K Jagannatham
Dept. of Electrical Engineering IIT Kanpur

Short Term Course

20 JSW Smart Manufacturing

01.09.2024 - 15.02.2025

Coordinator



Prof. Raghu Nandan Sengupta
Dept. of Management Sciences IIT Kanpur

Internship

21 Automation of Map Generalization Process

01.09.2024 - 31.03.2025

Coordinator



Prof. Onkar Dikshit
Dept. of Civil Engineering IIT Kanpur

Short Term Course

22 Foundations of Kalman filtering for target tracking

02.09.2024 - 06.09.2024

Coordinator



Prof. Naren Naik
Dept. of Electrical Engineering IIT Kanpur

Online Short Term Course

23 Data Analysis in Criminal Justice

03.09.2024 - 10.11.2024

Coordinator



Prof. Arvind Verma
Center for Criminal Justice IIT Kanpur

Workshop

24 Design and Implementation of Smart Water Systems

30.08.2024 - 31.08.2024

Coordinators



Prof. Abhijith G. R.
Dept. of Civil Engineering IIT Kanpur



Prof. Purnendu Bose
Dept. of Civil Engineering IIT Kanpur



Prof. Manoj Kumar Tiwari
Dept. of Civil Engineering IIT Kanpur

Online Symposium

25 Mathematical Modeling and Simulations in Optics

04.09.2024 - 04.09.2024

Coordinator



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

Workshop

26 IIT Kanpur Lab Visit for Students of Jawahar Navodaya Vidyalaya

06.09.2024 - 06.09.2024

Coordinator



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

Symposium

27 Organic Chemistry Symposium—2024 (OCS-2024)

08.09.2024 - 09.09.2024

Coordinator



Prof. Dattatraya H. Dethe
Dept. of Chemistry IIT Kanpur

Short Term Course

28 Introduction to Infrastructure Asset Management

10.09.2024 - 12.09.2024

Coordinator



Prof. Sudhir Misra
Dept. of Civil Engineering IIT Kanpur

Short Term Course

29 Comprehensive Computer Skills for the Workplace

15.09.2024 - 14.10.2024

Coordinator



Prof. Nishanth N. Nair
Dept. of Chemistry IIT Kanpur

Short Term Course

30 Sustainable Production of Green Steel

16.09.2024 - 19.09.2024

Coordinator



Prof. Rajiv Shekhar
Dept. of Materials Science & Engineering
IIT Kanpur

Internship

31 Real Analysis

16.09.2024 - 16.11.2024

Coordinator



Prof. Rama Rawat
Dept. of Mathematics & Statistics IIT Kanpur

Workshop

32 North Zone of Electron Microscope Society of India (EMSI – 2024)

20.09.2024 - 21.09.2024

Coordinator



Prof. Krishanu Biswas
Dept. of MSE IIT Kanpur

Online Short Term Course

33 IIT Kanpur Certificate Program on PYTHON+ MATLAB/ OCTAVE-Based Simulation and Design of 5G/ 6G Wireless Technologies

25.09.2024 - 30.01.2025

Coordinator



Prof. Aditya K Jagannatham
Dept. of Electrical Engineering IIT Kanpur

Short Term Course

34 Steelmaking & Refractories

03.10.2024 - 05.10.2024

Coordinator



Prof. Dipak Mazumdar
Dept. of MSE IIT Kanpur

Conference

35 Interdisciplinary Initiative in Chemical Sciences

03.10.2024 - 06.10.2024

Coordinator



Prof. Anand Singh
Dept. of Chemistry IIT Kanpur

Short Term Course

36 Udghosh 2024

04.10.2024 - 06.10.2024

Coordinator



Prof. Manas K Ghorai
Dept. of Chemistry IIT Kanpur

International Conference

37 Fechner Day 2024:40th International Society for Psychophysics

07.10.2024 - 09.10.2024

Coordinator



Prof. Narayan Srinivasan
Dept. of Cognitive Science IIT Kanpur

Workshop

38 GRACE Hackweek 4 (A hybrid school on time variable gravity field from GRACE/GRACE-FO mission)

07.10.2024 - 11.10.2024

Coordinator



Prof. Balaji Devaraju
Dept. of Civil Engineering IIT Kanpur

Workshop

39 AKSHAR (a Literary festival)

14.10.2024 - 17.10.2024

Coordinator



Prof. Ark Verma
Dept. of Humanities and Social Sciences
IIT Kanpur

Online Short Term Course

40 Artificial Intelligence Short-term Training

14.10.2024 - 23.10.2024

Coordinator



Prof. Ketan Rajawat
Dept. of Electrical Engineering IIT Kanpur

Workshop

41 Very High Energy Particle Astronomy (VHEPA)

17.10.2024 - 19.10.2024

Coordinators



Prof. Pankaj Jain
Dept. of SPASE IIT Kanpur



Prof. J.S. Yadav
Dept. of SPASE IIT Kanpur



Prof. Kunal Mooley
Dept. of SPASE IIT Kanpur



Prof. Navaneeth Poonthottathil
Dept. of Physics IIT Kanpur

Online Workshop

42 Traffic Flow Dynamics: Data, Models, and Methods

17.10.2024 - 18.10.2024

Coordinator



Prof. Venkatesan Kanagaraj
Dept. of Civil Engineering IIT Kanpur

Short Term Course

43 ANTARAGNI 24

17.10.2024 - 20.10.2024

Coordinators



Prof. Ark Verma
Dept. of Humanities and Social Sciences
IIT Kanpur



Prof. Sandeep Shukla
Dept. of CSE IIT Kanpur



Prof. Deepu Philip
Dept. of Management Sciences IIT Kanpur

Workshop

44 Understanding the Challenges of Inverter-Based Resources Through Hardware-in-the Loop Simulation

21.10.2024 - 22.10.2024

Coordinator



Prof. Ebin Cherian Mathew
Dept. of Electrical Engineering IIT Kanpur

International Conference

45 18th World Congress on Engineering Asset Management (WCEAM 2024)

17.10.2024 - 19.10.2024

Coordinators



Prof. NS Vyas
Dept. of Mechanical Engineering IIT Kanpur



Prof. J. Ram Kumar
Dept. of Mechanical Engineering IIT Kanpur

Conference

46 H2O & Climate: Hydraulics, Hydrology & Climate Conference

26.10.2024 - 27.10.2024

Coordinators



Prof. Saumyen Guha
Dept. of Civil Engineering IIT Kanpur



Prof. Shivam Tripathi
Dept. of Civil Engineering IIT Kanpur

Workshop

47 ESG and Business Sustainability

30.10.2024 - 09.05.2027

Coordinators



Prof. Rajeev Jindal
Dept. of Sustainable Energy Engineering
IIT Kanpur

Online Short Term Course

48 ESG and Business Sustainability

02.11.2024 - 12.01.2025

Coordinators



Prof. Rajeev Jindal
Dept. of Sustainable Energy Engineering
IIT Kanpur

Short Term Course

49 Advanced Program in Cyber Security and Cyber Defense

04.11.2024 - 03.11.2025

Coordinator



Prof. Sandeep Shukla
Dept. of CSE IIT Kanpur

International Conference

50 International Conference on Energy Technologies

05.11.2024 - 07.11.2024

Coordinator



Prof. Ashish Garg
Dept. of Sustainable Energy Engineering
IIT Kanpur

Conference

51 National Symposium on Shockwaves NSSW-8

11.11.2024 - 15.11.2024

Coordinators



Prof. Mohammed Ibrahim S.
Dept. of Aerospace Engineering IIT Kanpur



Prof. Ashoke De
Dept. of Aerospace Engineering IIT Kanpur



Prof. Arun Kumar Perumal
Dept. of Aerospace Engineering IIT Kanpur

Short Term Course

52 Agricultural Practices using Drones: Plan, Design, Build and Fly

13.11.2024 - 23.11.2024

Coordinator



Prof. J. Ram Kumar
Dept. of Mechanical Engineering IIT Kanpur

Online Short Term Course

53 Regulatory Certification Program on "Power Market Economics and Operation"

16.11.2024 - 01.12.2024

Coordinator



Prof. Anoop Singh
Dept. of Management Sciences IIT Kanpur

Short Term Course

54 Big Data and Data Analytics

17.11.2024 - 21.11.2024

Coordinators



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



Prof. Shankar Prawesh
Dept. of Management Sciences IIT Kanpur

Short Term Course

55

Introduction to Applied Geodesy

18.11.2024 - 22.11.2024

Coordinator



Prof. Onkar Dikshit

Dept. of Civil Engineering IIT Kanpur

Short Term Course

56

Introduction to Applied Geodesy

25.11.2024 - 29.11.2024

Coordinator



Prof. Onkar Dikshit

Dept. of Civil Engineering IIT Kanpur

Workshop

57

PERA 2024

29.11.2024 - 01.12.2024

Coordinator



Prof. Gururaj Mirle Vishwanath

Dept. of Electrical Engineering IIT Kanpur

Online Short Term Course

58

IIT Kanpur Certificate Program on PYTHON for Artificial Intelligence, Machine Learning and Deep Learning

01.12.2024 - 27.12.2024

Coordinator



Prof. Aditya K Jagannatham

Dept. of Electrical Engineering IIT Kanpur

Online Short Term Course

59

Spanish Language Course

01.12.2024 - 15.01.2025

Coordinator



Prof. Sarvesh Mishra

Dept. of Mechanical Engineering IIT Kanpur

Workshop

60

School on Magnetism and Spintronics

02.12.2024 - 04.12.2024

Coordinator



Prof. Rohit Medwal

Dept. of Physics IIT Kanpur

Workshop

61

Representation Theory of Quivers and BGG Category O for semi simple Lie Algebras (Virtual)

02.12.2024 - 21.12.2024

Coordinators



Prof. Amit Kuber

Dept. of Mathematics & Statistics IIT Kanpur



Prof. Sachin Subhash Sharma

Dept. of Mathematics & Statistics IIT Kanpur

Short Term Course

62

Exchange Travel to CERC led Delegation to Regulatory Institutions in Australia

02.12.2024 - 06.12.2024

Coordinator



Prof. Anoop Singh

Dept. of Management Sciences IIT Kanpur

Conference

63

Pan-IIT Meeting and Conference on Engineering in Medicine

06.12.2024 - 08.12.2024

Coordinators



Prof. Ashok Kumar

Dept. of BSBE IIT Kanpur



Prof. Rakesh Kumar Majhi

Dept. of BSBE IIT Kanpur

Short Term Course

64 Five Day Training Programme of TGT Science of PM Shri Schools (NVS)

10.12.2024 - 14.12.2024

Coordinators



Prof. Ashoke De
Dept. of Aerospace Engineering IIT Kanpur



Prof. M.K. Harbola
Dept. of Physics IIT Kanpur

Workshop

65 Navigating PHD and Beyond

30.12.2024 - 31.12.2024

Coordinator



Prof. Jitendra K Bera
Dept. of Chemistry IIT Kanpur

Short Term Course

66 Capacity Building Programme on "Regulatory and Policy Framework in the Indian Power Sector: Load Dispatchers Perspective"

11.12.2024 - 13.12.2024

Coordinator



Prof. Anoop Singh
Dept. of Management Sciences IIT Kanpur



Programs offered under eMasters

- » Cyber security
- » COMM/NGWT
- » Power Sector Regulation and Risk Management
- » Quantitative Finance and Risk Management
- » Data Science and Business Analytics
- » Financial Technology and Management
- » Business Finance
- » Financial Analysis
- » Public Policy
- » Sustainable Construction Practices and Project Management
- » Artificial Intelligence and Machine Learning
- » Climate Finance and Sustainability
- » Renewable Energy E-Mobility



CCE Team



Mr. Vinay Kumar



Ms. Deeksha Singh



Mr. Yogendra Singh



Mr. Sudesh Kumar Gupta



Mr. Ramnaresh Chaurasiya



Mr. Himanshu



Ms. Archana Diwakar



Mr. Rajesh Kumar

SURGE Team



Ms. Sanno Devi Kushwaha



Mr. Abhishek Singh



Mr. Alok Kumar

eMasters Team



Dr. Kasturi Sadhu



Mrs. Swati Jaiswal



Mrs. Richa Dey



Mr. Virendra Verma



Mr. Sumit Ghildiyal



Mrs. Bidisha Chowdhury



Mr. Om Prakash Verma



Ms. Shruti Bajpai



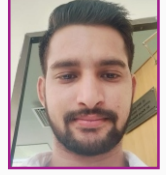
Dr. Aatmeeyata Garg



Mrs. Divya



Mrs. Kavita Singh



Mr. Ankit Yadav

mooKIT Team



Ms. Revathy KT



Ms. Lavanya Ravichandran



Mr. Deepak Kumar



Mr. Pradeep Singh



Mr. Abhishek Krishna Shukla



Mr. Shantanu Yadav



Mr. Shubham Tiwari



Mr. Tirupati Nath Nigam



Ms. Sugatha Chaturvedi



Mr. Sumit Rajpal



Prof. Vimal Kumar

Department of Economic Sciences
IIT Kanpur

Dr. Vimal Kumar - is a professor in the Department of Economic Sciences at IIT Kanpur, and currently heads the department. His primary research focus is on political economy and applied economic analysis. He is an alumnus of IIT Bombay with B. Tech. and M. Tech. in Mechanical Engineering. His PhD in Economics is from the University of California, Irvine (UC Irvine). He has worked with organizations like BIPARD, the Ministry of Education, UP Power Corporation Limited (UPPCL), Grid India, and SUD Life.

Dr. Kumar has organized more than 20 short-term courses with CCE on the following topics:

- 1.Power System Economics and Management (More than 10 times for the professionals of Grid India)
- 2.Data Analytics and Forecasting (More than 3 times for Professional of GRID India.
- 3.Economics, Data, and Public Policy for State Govt. trainee officials
- 4.Economics and Data Analysis for Newly Appointed Bihar Govt. Law Officials
- 5.Data-Driven Governance for BIPARD
- 6.Game Theory and Strategy for QIP

Dr. Kumar has regularly delivered invited talks on topics related to Game Theory, Strategy, Platforms and Matchmaking, and economic outlook.

Dr.. Kumar is the recipient of several awards and fellowships, including the class of 1982 research fellowship (2012-15) given by IIT Kanpur, the best research paper award for the year 2011 by the American Political Science Association, and the National Talent Search Scholarship (NTSE) from NCERT, India.

**Office of Outreach Activities (OOA)
Room No. 207, First Floor, Outreach Building
Indian Institute of Technology Kanpur**