Centre for Continuing Education

Indian Institute of Technology Kanpur

www.iitk.ac.in/cce
On behalf of centre for continuing education, I take this opportunity to wish you a very happy new year 2021. We hope this new year brings hope, health, and happiness to all of you. I am happy to present the fourth newsletter of the Centre for Continuing Education (CCE) to the IIT Kanpur community. The situation arising out of COVID-19 pandemic has not ebbed yet, and like all of you, We at CCE are looking forward to the days when on campus activities can resume at the Institute. I am certain that good times will follow soon.

I am very happy to report again that several virtual short term courses, workshops, MooCs, and winter schools were successfully conducted online, in the period between July to December 2020, under the umbrella of the CCE. Thirteen (13) virtual events were conducted completely online. All of them were very well attended despite the pandemic. The IEEE winter school on Fog/Edge computing conducted in December 2020 attracted around one thousand (1000) participants from all over the world including Europe and the USA. The certification program conducted by C3i on cyber security has also been very popular. Two cohorts have been completed under this highly successful certification program. The Foreign Language Program (FLP) has completed its second cohort completely online under the CCE. The SURGE program for 2020 was conducted completely online due to the pandemic. Prof. Harish Verma is continuing to work with the CCE and has offered some highly popular MooCs on science in 2020. The Vigyan Jyoti program of the DST which encourages STEM education among rural school girls will be run virtually for the first time in 2021 by the CCE along with Navodaya Vidyalaya Sarsaul – Kanpur.

We will continue to make efforts to offer as many online courses as possible from IITK Faculty during the year 2021. We look forward to the second half of 2021, when we can possibly resume our on campus activity and host events physically. I once again sincerely hope that the unprecedented situation we are in resolves by the second half of 2021. I look forward to communicating with all of you again very soon.
01 MATLAB Project Course in Latest MIMO Technologies for 5G Networks and IoT Massive MIMO, mm Wave MIMO, NOMA, Cooperative Communication, Cognitive

27 July to 4 August 2020

Coordinator

Prof. Aditya K. Jagannatham
Dept. of Electrical Engineering
IIT Kanpur
https://home.iitk.ac.in/~adityaj/

02 Competition on Physics Experiments

1-10 August 2020

Coordinators

Prof. T.V. Prabhakar
Dept. of Computer Science Engineering
IIT Kanpur
https://www.cse.iitk.ac.in/users/tvp/

Prof. H.C. Verma
Dept. of Department of Physics
IIT Kanpur
https://home.iitk.ac.in/~hcverma/
Basic of Electrodynamics-1 (Electrostatics)
15 August - 15 December 2020

**Coordinators**

Prof. T.V. Prabhakar  
Dept. of Computer Science Engineering  
IIT Kanpur  
https://www.cse.iitk.ac.in/users/tvp/

Prof. H.C. Verma  
Dept. of Department of Physics  
IIT Kanpur  
https://home.iitk.ac.in/~hcverma/

Data Analysis in Criminal Justice
17 August - 6 November 2020

**Coordinators**

Prof. Mainak Chauduri  
Dept. of Computer Science Engineering  
IIT Kanpur  
https://www.iitk.ac.in/new/dr-mainak-chauduri

Dr. Arvind Verma  
Center for Cyber Security and Cyber Defence  
IIT Kanpur
Theory and Simulation of Modern Wireless Systems
1 September - 30 November 2020

Coordinator
Prof. Aditya K. Jagannatham
Dept. of Electrical Engineering
IIT Kanpur
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High Intensity Training (HIT) Programs on Massive MIMO
mmWA ve MIMO OFDM NOMA
25 September - 11 October 2020

Coordinator
Prof. Aditya K. Jagannatham
Dept. of Electrical Engineering
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Foreign Language programme 20-21
1 September 2020 - 30 June 2021

Coordinator
Prof. Sayan Chattopadhyay
Dept. of Humanities and Social Sciences
IIT Kanpur
https://iitk.ac.in/new/sayan-chattopadhyay
08

**mm Wave MIMO Technology**

1 November 2020 - 31 March 2021

**Coordinator**

Prof. Aditya K. Jagannatham  
Dept. of Electrical Engineering  
IIT Kanpur  
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09

**The Present and future of Satellite Gravimetry- online workshop on the design, development and application of satellite gravimetry**

18-20 November 2020

**Coordinator**

Dr. Balaji Devaraju  
Dept. of Civil Engineering  
IIT Kanpur  
https://www.iitk.ac.in/new/balaji-devaraju

10

**Handling Large Scale Data & Data Analysis Using R**

2-15 December 2020

**Coordinator**

Prof. Shalabh  
Dept. of Mathematics & Statistics  
IIT Kanpur  
https://home.iitk.ac.in/~shalab/
IITK-Kanpur/LCC-CNRS joint CEFIPRA/IFCPAR Symposium on Organometallic Chemistry and Catalysis
8-10 December 2020

Coordinator

Prof. Basker Sundararaju
Dept. of Chemistry
IIT Kanpur
https://www.iitk.ac.in/new/basker-sundararaju

IIT Kanpur Winter School (IIWS) on Python for Design, Analysis and Simulation of 5G Systems (PROGRAM A: Multi-user, Massive MIMO and mm Wave MIMO,
21 December 2020 - 12 January 2021

Coordinator

Prof. Aditya K. Jagannatham
Dept. of Electrical Engineering
IIT Kanpur
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2nd IEEE Winter School on Fog/Edge Computing 2020
29-30 December 2020

Coordinator

Prof. Rajesh M. Hegde
Dept. of Electrical Engineering
IIT Kanpur
https://home.iitk.ac.in/~rhegde/
Prof. Aditya K. Jagannatham is a Professor in the Electrical Engineering department at IIT Kanpur, where he holds the Arun Kumar Chair Professorship. He received his B.Tech from IIT Bombay and M.S. and Ph.D. degrees from the University of California, San Diego, U.S.A. He was subsequently employed as a senior wireless systems engineer at Qualcomm, San Diego, California, one of the global leaders in wireless chipset design and R&D. His research interests are in the area of 5G technologies such as massive MIMO, mmWave MIMO, FBMC, NOMA, and others. His research articles have been published extensively in leading international IEEE journals and conferences. He is a well-known trainer on 5G technology and has conducted several self-sponsored courses and schools. He has been recognized with several awards such as the P.K. Kelkar Young Faculty Research Fellowship, Qualcomm Innovation Fellowship (QInF), Arun Kumar Chair and IITK Excellence in Teaching Award.
CCE Staff

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Mr. Ram Naresh Chaurasiya

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