Centre for Continuing Education
Indian Institute of Technology Kanpur

Newsletter January–June 2022

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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, MooCs, and Conferences were successfully conducted in online and offline mode during the period between January to June 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 thirty-five (35) events were conducted under the aegis of the CCE. A total of two hundred (200) polytechnic teachers were trained under the academic institutions program. A summer program on Introduction to Sanskrit language was run during this period.

We will make continued efforts to offer courses from IITK Faculty during the second half of 2022. I am looking forward to reporting our activities again in the next newsletter. Take care and stay safe.
CCE Events: January–June 2022

01 SURGE Programme 2022
01.01.2022 - 31.12.2022
Coordinator
Prof. B.V. Rathish Kumar
Professor, Dept. of Mathematics and Statistics, IIT Kanpur

02 ACM India Online Winter on Design, Implementation and Verification of Computer Systems
03.01.2022 - 16.01.2022
Coordinator
Prof. Subhajit Roy
Associate Professor, Dept. of CSE, IIT Kanpur

03 Recent Trends in Numerical Methods for PDEs and Applications
16.01.2022
Coordinator
Prof. B.V. Rathish Kumar
Professor, Dept. of Mathematics and Statistics, IIT Kanpur

04 IITK Advanced Career School in PYTHON based Data Science, Machine Learning and Deep Learning
22.01.2022 - 25.02.2022
Coordinator
Prof. Aditya K. Jagannathan
Professor, Dept. of Electrical Engineering, IIT Kanpur

05 Data Analysis in Criminal Justice
07.02.2022 - 16.04.2022
Coordinator
Prof. Arvind Kumar
Visiting Professor, Dept. of CSE, IIT Kanpur

06 Introduction to Futuristic Research and Innovations: Brief and basics in areas such as air quality monitoring, urban development, online education etc.
07.02.2022 - 11.02.2022
Coordinators
Prof. Amitabha Bandyopadhyay
Professor, Dept. of BSBE, IIT Kanpur
Prof. B.V. Rathish Kumar
Professor, Dept. of Mathematics and Statistics, IIT Kanpur

07 Workshop on Capability and Tools/Technology Mapping
19.02.2022 - 06.03.2022
Coordinators
Prof. Pritam Chakraborty
Assistant Professor, Dept. of Aerospace Engineering, IIT Kanpur
Prof. Amarendra Kumar Singh
Professor, Dept. of Materials Science &Engg, IIT Kanpur
08 Understanding the choice of coating materials and methods on the protection against corrosion and wear
24.02.2022 – 24.04.2022
Coordinator
Prof. Kallol Mondal
Professor, Dept. of MSE, IIT Kanpur

09 Data Science and Machine Learning
28.02.2022 – 04.03.2022
Coordinators
Prof. Subhajit Roy
Assistant Professor, Dept. of CSE, IIT Kanpur
Prof. B.V. Rathish Kumar
Professor, Dept. of Mathematics and Statistics, IIT Kanpur

10 15th Capacity Building Programme for Officers of Electricity Regulatory Commissions
28.02.2022 – 04.03.2022
Coordinator
Prof. Anoop Singh
Professor, Dept. of IME, IIT Kanpur

11 IITK Python and Matlab/Octave-Based extensive training school in 5G Wireless Technologies
12.03.2022 – 15.04.2022
Coordinator
Prof. Aditya K. Jagannathan
Professor, Dept. of Electrical Engineering, IIT Kanpur

12 AI/ML Techniques for Weather & Climate Problems
12.03.2022 – 14.02.2022
Coordinator
Prof. B.V. Rathish Kumar
Professor, Dept. of Mathematics and Statistics, IIT Kanpur

13 agMOOCs: Fluid Therapy and Management of Clinical Syndrome in Cattle and Small Ruminants
22.03.2022 – 15.05.2022
Coordinator
Prof. T.V. Prabhakar
Professor, Dept. of CSE, IIT Kanpur

14 Professional Certification Programme in Blockchain
01.04.2022 – 31.03.2023
Coordinator
Prof. Sandeep Shukla
Professor, Dept. of CSE, IIT Kanpur

15 Skill Development Initiative (SDI) in Women’s Tailor
01.04.2022 – 31.08.2023
Coordinators
Prof. Sudhanshu Shekhar Singh
Associate Professor, Dept. of MSE, IIT Kanpur
Prof. Sandeep Sangal
Professor, Dept. of MSE, IIT Kanpur
16 Organic Chemistry Symposium–2022 (OCS–2022)
02.04.2022 – 03.04.2022
Coordinator
Prof. Dattatraya H. Dethe
Professor, Dept. of Chemistry, IIT Kanpur

17 Advanced Certification Programme in Cyber Security and Cyber Defense
16.04.2022 – 15.10.2022
Coordinator
Prof. Sandeep Shukla
Professor, Dept. of CSE, IIT Kanpur

18 PYTHON for 5G System Simulation, Design and Analysis (Exclusively for Qualcomm)
18.04.2022 – 06.05.2022
Coordinator
Prof. Aditya K. Jagannathan
Professor, Dept. of Electrical Engineering, IIT Kanpur

19 agMOOCs: Statistical Techniques for Agriculturists
19.04.2022 – 15.06.2023
Coordinator
Prof. T.V. Prabhatkar
Professor, Dept. of CSE, IIT Kanpur

20 Recent development in the field of Geospatial and Geo-intelligence Data collection
Coordinator
Prof. Onkar Dixit
Professor, Dept. of Civil Engineering, IIT Kanpur

21 Strengthening of Positions Infrastructure
24.04.2022 – 29.04.2022
Coordinator
Prof. Onkar Dixit
Professor, Dept. of Civil Engineering, IIT Kanpur

22 Training and Capacity Building for Power Sector Institutions – LTDF & PPP
28.04.2022
Coordinator
Prof. Anoop Singh
Professor, Dept. of IME, IIT Kanpur

23 Sanskrit Language Course
02.05.2022 – 30.06.2022
Coordinator
Prof. B.V. Rathish Kumar
Professor, Dept. of Mathematics and Statistics, IIT Kanpur
Instructor
Dr. Chaitali Dangarikar
IIT Kanpur
<table>
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<tr>
<th>No.</th>
<th>Program Title</th>
<th>Dates</th>
<th>Coordinator/Instructor Details</th>
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| 24  | Technical Module for Trainee Engineers of HAL                                  | 16.05.2022 - 23.07.2022 | Coordinator: Prof. Bishakh Bhattacharya  
IIT Kanpur  
Dept. of Mechanical Engineering |
| 25  | Strengthening of Positions Infrastructure                                      | 09.05.2022 - 20.05.2022 | Coordinator: Prof. Onkar Dixit  
IIT Kanpur  
Dept. of Civil Engineering |
| 26  | Training on Intelligent Power Transmission and Distribution Systems            | 18.05.2022 - 22.05.2022 | Coordinators: Prof. Ankush Sharma  
IIT Kanpur  
Dept. of Electrical Engineering  
Prof. Alok Ranjan  
IIT Kanpur  
Dept. of Electrical Engineering |
| 27  | Regulatory Certification Program on Power Sector Regulation: Theory and Practice (RCP02) | 09.05.2022 - 20.05.2022 | Coordinator: Prof. Anoop Singh  
IIT Kanpur  
Dept. of IME |
| 28  | Swaranjali, A vocal music course for beginners                                 | 30.05.2022 - 25.06.2022 | Coordinator: Prof. Vipul Arora  
IIT Kanpur  
Dept. of Electrical Engineering |
| 29  | agMOOCs: Management of Metabolic & Production Disorders in Cattle             | 31.05.2022 - 20.06.2022 | Coordinator: Prof. T.V. Prabhakar  
IIT Kanpur  
Dept. of CSE |
| 30  | Applied AIML for Business & Decision Analysis                                  | 01.06.2022 - 30.06.2022 | Coordinator: Prof. Raghu Nandan Sengupta  
IIT Kanpur  
Dept. of IME |
| 31  | Global Just Transition Network                                                  | 01.06.2022 - 30.06.2023 | Coordinator: Prof. Pradip Swarnakar  
IIT Kanpur  
Dept. of Humanities & Social Sciences |
IIT Kanpur Summer Training School on PYTHON + MATLAB + SIMULINK-based Simulation and Design of 4G/5G MIMO-OFDM Wireless Systems  
11.06.2022 – 28.06.2022

Coordinator
Dr. Aditya K. Jagannathan  
Professor,  
Dept. of Electrical Engineering,  
IIT Kanpur

Handling Large Scale Data and Data Analysis using R  
01.06.2022 - 30.06.2023

Coordinator
Prof. Shalabh  
Professor,  
Dept. of Mathematics & Statistics,  
IIT Kanpur

Shock Waves and Shock Tube Technologies  
15.06.2022

Coordinator
Prof. Mohammed Ibrahim Sugarno  
Assistant Professor,  
Dept. of Aerospace Engineering,  
IIT Kanpur

Power Market Economics and Operation (RCP02)  
26.06.2022 - 10.07.2022

Coordinator
Prof. Anoop Singh  
Professor,  
Dept. of IME, IIT Kanpur
Prof. Onkar Dikshit is a faculty in the Department of Civil Engineering, IIT Kanpur with Geoinformatics specialization. He completed his PhD from University of Cambridge, UK. His research interests include Geospatial Technology (optical, hyperspectral and microwave remote sensing, satellite image processing and analysis, and GNSS) for various engineering, archaeological and resources management applications including image classification, geodetic infrastructure, geodetic deformation, snow, and soil moisture studies.

He has supervised 13 PhD and 90 MTech theses. He is also the Coordinator of National Centre for Geodesy (NCG), IIT Kanpur. He has successfully organized many short-term courses, conferences, and trainings for faculty, researchers and working professionals and has executed several sponsored research projects from funding agencies like JICA, DST, Indian Railways, ISRO, INCOIS, NRSC, UGC, MHRD, AICTE in the area of Geoinformatics.