

RESC-2020

September  
14-18, 2020

***TEQIP-III Sponsored  
Online Short Term Course  
on  
Recent Trends in Renewable Energy Systems and Their Control***



***Jointly Organized By  
Department of Electrical Engineering and  
Department of Instrumentation & Control Engineering***

***Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab***



**Prof. (Dr.) Lalit Kumar Awasthi**  
**Chief Patron**  
Director,  
Dr. B. R. Ambedkar NITJ  
Jalandhar



**Dr. Dilbag Singh**  
**Patron**  
Head-Department of EE,  
Dr. B. R. Ambedkar NIT Jalandhar



**Dr. Rajesh Singla**  
**Co-Patron**  
Head-Department of ICE,  
Dr. B. R. Ambedkar NIT Jalandhar



**Dr. Vivek Sharma**  
**Convener**  
Department of EE,  
Dr. B. R. Ambedkar NITJ  
viveks@nitj.ac.in



**Dr. Afzal Sikander**  
**Coordinator**  
Department of ICE,  
Dr. B. R. Ambedkar NITJ  
afzals@nitj.ac.in



**Dr. K.C. Sharma**  
**Coordinator**  
Department of EE,  
Dr. B. R. Ambedkar NITJ  
sharmakc@nitj.ac.in

**Note:**

- The registration link: <https://forms.gle/tNcVS5cvAf8HtoxQ9>
- No Registration Fee.
- Prior registration is compulsory to attend the STC.
- E-Certificate will be issued to the participants on successful participation to the STC.
- The Google Meet link will be shared with the registered participants.

## Objective of the Course

This online short term course (STC) is designed to provide a forum for professionals, key academic and industrial practitioners, researchers, engineers and students involved in the broad field of renewable energy systems and control engineering. Special emphasis will be given to the recent trends in energy conservation systems, renewable energy sources and different control design techniques. This STC aims to leader transitions to a cleaner and sustainable future through the conservation and efficient use of Natural resources with the help of control system engineering.

## Tentative Course Contents

- Conservation and Renewable Energy Systems.
- Recent Trends in Renewable Energy Systems
- Stability, Security, Reliability and Sustainability of Renewable Energy System
- Wind Energy Conversion Systems
- Hybrid Energy Systems.
- Energy Audit and Management
- Energy Policy and Regulations in India
- Energy storages in Renewable Integrated Systems
- Control Design Techniques in Renewable Energy Systems
- Fractional Order System
- Sliding Mode Control
- Robust Control: Loop Shaping Concept

## Eminent Speakers



**Dr. Piyush Verma**  
International Energy  
Research Centre  
(IERC),  
Cork, Ireland

**Dr. Yogesh V. Hote**  
IIT Roorkee

**Dr. D. Khatod**  
IIT Roorkee

**Dr. Bharat Singh**  
IIT Mandi

**Dr. Ujjawal Kalla**  
MANIT Bhopal



**Dr. Vinod K. Yadav**  
DTU, New Delhi



**Dr. Sarsing Gao**  
NERIST, Nirjuli, AP



**Dr. S. Singh**  
MANIT Bhopal



**Dr. Y. P. Verma**  
UIET, Chandigarh



**Dr. O. P. Rahi**  
NIT Hamirpur



Email: [afzals@nitj.ac.in](mailto:afzals@nitj.ac.in); [viveks@nitj.ac.in](mailto:viveks@nitj.ac.in); [sharmakc@nitj.ac.in](mailto:sharmakc@nitj.ac.in)

Mob. 7017638266; 8219685883; 9887221353