



TEQIP-3

Technical Education Quality Improvement Programme



Green Energy Technologies for Sustainable Development

(June 11-20, 2020)

TEQIP-III Sponsored Two Weeks Online Short Term Training Program

Jointly organized by:

Engineering College Bikaner and NIT Kurukshetra (Mentor Institute |TEQIP-III)

The program will be conducted online using Cisco WebEx Platform with zero registration fee.

PATRON

Dr. Satish Kumar

(Director, NIT Kurukshetra)

Dr. J. P. Bhamu

(Principal | ECB)

Program Conveners

Prof. Sathans

(NIT Kurukshetra)

Dr. O. P. Jakhar | ECB

(TEQIP-III Coordinator)

Program Coordinators

Dr. Shelly Vadhera

Dr. Rajneesh

(NIT Kurukshetra)

Dr. C. S. Rajoria | ECB

Dr. Vikas Sharma | ECB

Dr. Ganesh P Prajapat | ECB

Dr. Ravi Kumar | ECB



About NIT Kurukshetra

National Institute of Technology Kurukshetra is an Institute of National Importance of the country and has been a premier technical institute of the region. Founded in 1963 as Regional Engineering College Kurukshetra, the institute was rechristened as National Institute of Technology Kurukshetra on June 26, 2002. The institute offers 4-year B.Tech. degree courses in the engineering streams of Civil, Computer, Electrical, Electronics & Communications, Mechanical, Information Technology and Production & Industrial Engineering. The institute also runs 2-year M.Tech. degree courses in 20 areas of specializations of science & technology and post - graduate courses leading to the degrees in MBA and MCA. In addition to providing instructions in various disciplines of Engineering and Technology at the Undergraduate and Post-graduate levels, the institute has excellent facilities for PhD & research in the emerging areas including Nanotechnology, Ergonomics, Robotics, CAD/CAM, Energy and Environment. The infrastructure is geared to enable the institute to turn out technical personnel of high quality.

About Engineering College Bikaner

Engineering College Bikaner is an Autonomous institution of Govt. of Rajasthan., spread over 200 acres of land and located at Karni Industrial Area, Bikaner. The institution was established in the year 1999 and committed to provide quality education. It has seven branches of Engineering at UG level viz. CSE, ECE, EICE, IT, ME, EE, CE. It also runs BBA, BCA, MCA, MBA and M.Sc courses and also offers M.Tech./Ph.D. in ME, EE, CSE and Sciences.



The link for online registration for the STTP is:

https://docs.google.com/forms/d/e/1FAIpQLSdYqA-ZUZ9BqSYWlnnMcT_HURu2iJoeyUA8mAQ0DWfmnDuPrw/viewform

CONTACT FOR FURTHER INFORMATION

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Dr. Ravi Kumar, Engineering College Bikaner; E-mail: er.ravi.49@gmail.com; Mobile no: 7060892696

About the Programme

The goal for this STTP is to provide a well- review and stimulate progress from both research institutes and industry. This STTP is intended to provide the platform to researcher, engineers, academicians and industrial professionals to discuss green technology for sustainable future with recent advances, trends and development which is taking place all across the globe. **Areas to be covered: Solar thermal Energy, Solar PV energy, Wind energy, Bio-mass and Bio-energy, Small hydro power, smart cities and green buildings, tidal energy, green energy materials, fuel cell, smart technologies and energy efficient systems.**

The objectives of the programme are:

- To familiarize participants with the basics of renewable energy.
- To enhance the knowledge base and develop skills of participants for selecting the appropriate technique of utilizing renewable resources.
- To provide guidelines about different schemes of Govt. of India to utilize various types of renewable resources.
- To provide the participants with a broad overview of the recent systems and techniques used in green energy generation for sustainable development.

Galaxy of Speakers



Dr. Narendra Singh Rathore
Hon'ble Vice Chancellor,
Maharana Pratap University of Agriculture and Technology,
(MPUAT) Udaipur

Prof Virendra Kumar Vijay | IREDA Chair Professor,
Centre for Development and Technology (CRDT)
Indian Institute of Technology Delhi



Dr. Sukumar Mishra | Professor
Department of Electrical Engineering
Indian Institute of Technology Delhi



Dr. Arun Kumar | Professor
Department of Hydro and Renewable Energy
Indian Institute of Technology Roorkee

Dr R.P. Saini | Professor
Department of Hydro and Renewable Energy
Indian Institute of Technology Roorkee



Dr. Anil Verma | Professor
Department of Chemical Engineering
Indian Institute of Technology Delhi



Dr. S.K. Singal | Professor and Head
Department of Hydro and Renewable Energy
Indian Institute of Technology Roorkee

Dr. Prashant Baredar | Chairman & Professor
Department of Energy, Energy Centre
MANIT, Bhopal



Dr. Abdus Samad | Professor
Department of Ocean Energy
Indian Institute of Technology Madras

Dr. M.S. Sevda | Professor and Head
Department of Renewable Energy
Central Agriculture University Sikkim



Dr. Dheeraj K Khatod | Associate Professor
Department of Electrical Engineering
Indian Institute of Technology Roorkee

Dr. Priyanka Kaushal | Associate Professor
Centre for Development and Technology (CRDT),
Indian Institute of Technology Delhi



Dr Shelly Vadhera | Associate Professor
Department of Electrical Engineering,
NIT Kurukshetra

Dr. Varun Goel | Associate Professor
Department of Mechanical Engineering
NIT Hamirpur



Dr. Surendra Singh Kachhwaha | Professor
Department of Mechanical Engineering,
PDPU Gandhinagar

Dr. VSKV Harish | Assistant Professor
Department of Electrical Engineering,
PDPU Gandhinagar



Dr. Rajneesh | Assistant Professor
Department of Mechanical engineering,
NIT Kurukshetra

Dr. Arun Kumar Verma | Assistant Professor
Department of Electrical Engineering
MNIT Jaipur



Two-Weeks Online Short-Term Training Program

On

“Green Energy Technologies for Sustainable Development”

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From 11-20 June 2020

Tentative Schedule



Dr. Narendra Singh Rathore
Hon'ble Vice Chancellor
Maharana Pratap University of Agriculture and Technology,
(MPUAT) Udaipur

Energy from Biomass
11 June,
09:00 – 11:00

Prof Virendra Kumar Vijay | IREDA Chair Professor
Centre for Development and Technology (CRDT)
Indian Institute of Technology Delhi



Biogas and Bioenergy for Villages
11 June,
02:30 – 04:30



Dr. Abdus Samad | Professor
Department of Ocean Energy
Indian Institute of Technology Madras

Ocean Energy:- Current Status
12 June,
09:30 – 11:30

Dr. Priyanka Kaushal | Associate Professor
Centre for Development and Technology (CRDT)
Indian Institute of Technology Delhi



Biomass Gasification, Biochar and
Carbon Neutral Society
12 June,
02:30 – 04:30



Dr. Sukumar Mishra | Professor
Department of Electrical Engineering
Indian Institute of Technology Delhi

Microgrid
13 June,
09:30 – 11:30

Dr. Sathans | Professor
Department of Electrical Engineering; NIT Kurukshetra



Why Green Energy and what it
is About?
13 June,
04:00 – 06:00



Dr. Sukumar Mishra | Professor
Department of Electrical Engineering
Indian Institute of Technology Delhi

Grid Integration of Renewable
Energy Sources
14 June,
09:30 – 11:30

Dr. VSKV Harish | Assistant Professor
Department of Electrical Engineering; PDPU Gandhinagar



Green Buildings:- Energy System
Modelling, Optimisation And Control
14 June,
04:00 – 06:00



Dr. S.K. Singal | Head and Professor
Department of Hydro and Renewable Energy
Indian Institute of Technology Roorkee

Small Hydropower – Site Selection
and Investigation
15 June,
09:30 – 11:30

Dr. Arun Kumar | Professor
Department of Hydro and Renewable Energy
Indian Institute of Technology Roorkee



Hydropower Status
15 June,
04:00 – 06:00



Dr. Shriram Hegde | Professor
Applied Mechanics Department
Indian Institute of Technology Delhi

Closed Energy and Water cycles for
Sustainable Development – Some
Experiences in Rural Micro Industrial
Complex, Malunga, Jodhpur
16 June,
09:30 – 11:30

Dr. Dheeraj K Khatod | Associate Professor
Department of Electrical Engineering
Indian Institute of Technology Roorkee



Modelling and Simulation of
Hydro power
16 June,
04:00 – 06:00



Dr R.P. Saini | Professor
Department of Hydro and Renewable Energy
Indian Institute of Technology Roorkee

Solar Thermal Energy:- Utilisation and
Storage Technology
17 June,
09:30 – 11:30

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	Dr. Anil Verma Professor Department of Chemical Engineering Indian Institute of Technology Delhi	Fuel Cell / Energy Storage Battery	17 June, 04:00 – 06:00
	Dr. Rajneesh Assistant Professor Department of Mechanical engineering NIT Kurukshetra	Advances in Biomass Gasification	18 June, 09:30 – 11: 30
	Dr. Arun Kumar Verma Assistant Professor Department of Electrical Engineering MNIT Jaipur	Electric Vehicle	18 June, 02:20 – 04:20
	Dr. Prashant Baredar Chairman & Professor Department of Energy Energy Centre MANIT - Bhopal	Wind Turbine Tower Design Analysis	18 June, 04:30 – 06:30
	Dr. Varun Goel Associate Professor Department of Mechanical Engineering NIT Hamirpur	Supercritical Carbon Di-Oxide usage in Solar Thermal Application	19 June, 09:30 – 11: 30
	Dr. M.S. Sevda Professor and Head Department of Renewable Energy Central Agriculture University Sikkim	Role of Solar Energy Technologies for Sustainable Development	19 June, 04:00 – 06:00
	Dr. Surendra Singh Kachhwaha Professor Department of Mechanical Engineering PDPU Gandhinagar	Cavitation Technologies: A Breakthrough in Biofuel Production Processes / OR Combustion Modelling for Biodiesel Blending; CI Engine Performance Testing And Emission Control	20 June, 09:30 – 11: 30
	Dr Shelly Vadhera Associate Professor Department of Electrical Engineering, NIT Kurukshetra	Spectrum of Intensive Research Areas in Solar Energy Technology	20 June, 04:00 – 06:00
	Dr. Sathans Professor Department of Electrical Engineering NIT Kurukshetra	Feedback cum interactive session	20 June, 06:00 – 06:30

NOTE: ALL THE PARTICIPANTS ARE KINDLY REQUESTED TO KEEP THE VIDEO IN DISABLED MODE AND AUDIO IN MUTE MODE DURING THE SESSIONS. ALL THE QUERRIES WILL BE ADDRESSED IMMEDIATELY AFTER THE SESSIONS.