

SCIENCE AND ENGINEERING RESEARCH BOARD

KARYASHALA

On

**Grid Integration of Renewable Energy Sources:
Concepts, Issues and Solutions
(16– 22 January, 2023)**

REGISTRATION FORM

Name:.....
Designation:
Organization:
Qualification:
Correspondence Address:
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Tel. (O)..... (M)
E-Mail:

Signature of Candidate

Signature of Principal/HOD/Supervisor

Note: The participants to the course will be Ph.D. and ME/M.Tech. research scholars only. Email duly signed registration form at: trainingprogramnita@gmail.com

CHIEF PATRON

Prof. H.K. Sharma
Director, NIT NIT Agartala

PATRON

Prof. P.N. Das
HoD, Department of Electrical Engineering

COORDINATOR

Dr. Arvind Kumar Jain,
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ADDRESS FOR CORRESPONDENCE

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IMPORTANT DATES

- Last date of receipt of application: **31 Dec. 2022.**
- Notification about selection: **by email**

One week

DST –SERB sponsored

KARYASHALA

(High - End Workshop)

on

**Grid Integration of Renewable Energy Sources: Concepts, Issues and Solutions
(16–22 January, 2023)**



ORGANIZED BY

Department of Electrical Engineering

**National Institute of Technology, Agartala,
Tripura-799046**

www.nita.ac.in

<p>Speakers</p> <p>The speakers for this workshop will be from IITs, NITs and industries.</p> <p>Target Participants</p> <p>The proposed workshop is designed and intended for Ph.D., PG research scholars working in the area of Electrical Engineering and Electronics Engineering.</p> <p>About the Institution</p> <p>The National Institute of Technology Agartala is an Institute of National importance and fully funded by Government of India (GoI). Institute offers UG, PG and PhD courses in diversified fields of engineering, science and management along with Post-Doctoral Fellowships.</p> <p>The Institute is committed to develop technical manpower with through pursuit of excellence in research, consultancy and skill development.</p> <p>Registration Fee & other facilities</p> <ul style="list-style-type: none"> ✓ Workshop registration fee is nil. ✓ T.A./D.A. will be provided to the participants, as per the SERB norms. ✓ Food and accommodation will be provided to all the participants free of cost. 	<p>About the Department</p> <p>The Department of Electrical Engineering is established in 1965 under the aegis of Tripura Engineering College (TEC), a state engineering college of Tripura, which is upgraded as National Institute of Technology on 1st April 2006. The department offers a four years B.Tech program in “Electrical Engineering” with intake capacity of 90. The department offers 2 years M.Tech programs in four specializations namely Power System Engineering, Power Electronics & Drives, Instrumentation engineering, and Integrated Energy Systems.</p> <p>The department is actively involved in research and also running Ph.D. programs in all fields of electrical engineering. The research interests of the faculty members include a wide range of sub-disciplines of Electrical Engineering. The research activity of the department includes fundamental research, sponsored and consultancy projects, and is carried out with the active participation of the students, faculty, and research staff.</p>	<p>How to Reach NIT Agartala</p> <p>The Institute is 4 km away from Jirania on Assam-Agartala Highway (NH-44) and about 20 km away from Agartala city. Agartala is well connected by Rail Road and Air. Pre-Paid Taxi and auto services are available from Agartala Airport to the Institute.</p> <p>Objectives of the Program</p> <p>The primary objectives of the workshop are to enable the participants to:</p> <ul style="list-style-type: none"> • Understand the theory and concepts of renewable energy sources (RESSs) under smart grid. • Identify the different challenges of grid integration of PV solar power and wind power systems. • Understand the techniques adopted to alleviate these negative impacts. • Develop the knowledge of various smart inverter functions. • Learn from the emerging challenges and operating experience of utilities in implementing smart inverter technologies. • AI based methods for forecasting of renewable energy such as solar and wind. • Realize the need for further research and development in this rapidly growing area of renewable integration.
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