NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI

The National Institute of Technology (formerly known as Regional Engineering College) Tiruchirappalli, situated in the heart of Tamil Nadu on the banks of river Cauvery, was started as a joint and co-operative venture of the Government of India and the Government of Tamil Nadu in 1964 with a view to catering the needs of man-power in technology for the country. The college has been conferred with autonomy in financial and administrative matters to achieve rapid development. Because of this rich experience, this institution was granted Deemed University Status with the approval of the UGC/AICTE and Govt. of India in 2003 and renamed as National Institute of Technology.

NIT-T was registered under Societies Registration Act XXVII of 1975. National Institute of Technology Trichy is one of the 31 National Institutes of Technology established by the Government of India. The institution offers Under Graduate Courses in ten branches and Post Graduate Courses in twenty-one disciplines of Science, Engineering & Technology besides M.S. (by Research) and Ph.D. in all the departments. About 6200 students are enrolled in the institute and around 220 faculty members are employed in regular positions. NIT-T is ranked top among 31 NITs in India and is presently occupying 9th position in NIRF ranking, MHRD India. The Institute aims at benchmarking with global universities who are in the top 200 in world rankings in terms of teaching, innovation and research, funding and internationalisation.

AICTE – MARGDHARSHAN SCHEME

AICTE - All India Council for Technical Education was established in 1945 by Government of India. The organization was set up as an Apex Advisory Body to conduct survey on facilities on technical education and to promote and develop technical education in the country. National policy of Education (1986) defines AICTE as the statutory authority for planning, formulation and maintenance of norms and standards, quality assurance through accreditation, funding in priority areas, monitoring and evaluation, maintaining parity of certification and awards, and ensuring coordinated and integrated development and management of technical education in the country.

Margdharshan Scheme mainly aims at Mentoring to institutes by a well performing Institute. The Hub 'n Spoke system is to be established by an Institute of repute as a Mentor within an existing facility to serve as the hub to guide and disperse knowledge to ten technical institutions to encourage best practices. The secondary branches, the spokes, are additional services provided to faculty for self-improvement. Eventually, the Hub 'n Spoke system will allow for inter-hamlet information sharing, such as technical education, research and sharing of resources to the entire system. Through this scheme an Institute of repute as a Mentor within an existing facility to serve as the hub to guide and disperse knowledge to and between around ten technical institutions as spokes. The duration of the project is for 3 years. The National Institute of Technology Tiruchirappalli is one such Mentor Institute of repute.

National Level Five Day Faculty Development Programme on "Technologies for Smart Electrical Power Grid"

24th – 28th May, 2021

Organized by

Department of Electrical and Electronics Engineering, National Institute of Technology Tiruchirappalli

Under the aegis of

AICTE Margdarshan Scheme

VENUE (Online Mode) EEE Department, National Institute of Technology Tiruchirappalli – 620015.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING - NITT

The Department of Electrical and Electronics Engineering, NIT, Tiruchirappalli was started in the year 1964. It offers one Under-Graduate programme (B.Tech.), two Post-Graduate programmes (M.Tech. in Power Systems and Power Electronics) and also research programmes (M.S. and Ph.D.) in the various fields of Electrical and Electronics Engineering. After the institute became NIT, the department has grown not only in terms of student and faculty strength, but also in improving the laboratory facilities for the teaching and research purposes. Thus, the department has dedicated and state of the art teaching / research laboratories. The department is recognized for excellence in research (First Department in NIT-T to be accorded QIP status for Ph.D. programme), teaching and service to the profession. The faculty members have strong sense of responsibility to provide the finest possible education for both graduate and undergraduate students. The academic strength of the faculty is reflected by the alumni, many of whom are in the top echelons of industry and academia both in India and abroad.

SCOPE OF THE FDP

This course mainly focuses on background and fundamental building blocks of smart grid with stringent emphasis on practical applications in the existing power system network. This course provides overview of smart grid and its potential in different types of power sectors such as power generation, transmission and distribution in Metro, Urban/Semi urban and remote locations of India. The digital technology that allows for two-way communication between the utility and its customers, and the sensing along the transmission lines is what makes the grid smart.

OBJECTIVE OF THE FDP

The objective of the FDP is to equip the participants with a technical knowhow on the various technologies pertaining to the revival of conventional power grid into smart power grid. Smart grid technology is a collection of existing and emerging technologies working together to achieve energy efficiency, automation and financial benefits in the production, transport and consumption of electrical energy. Smart gird technologies involve integration of renewable energy sources into the conventional power grid both at the transmission and distribution level, smart metering, distribution automation, SCADA, demand side management, Applications of AI, IoT and Blockchain for energy management & energy trading and adopting information & communication technology for consumer participation in the grid operation.

REGISTRATION FEES

Registration fee for participants from other institutes is Rs. 800/- (including 18%GST)

MODE OF PAYMENT (for participants from other than mentee institutions)

The participants are requested to transfer the registration fee through i-collect

1. Go to the SBI-collect using the link https://www.onlinesbi.com/sbicollect/icollecthome.htm
2. Select the state as 'Tamil Nadu', and Type of Institution as 'Educational Institutions'.
3. Select Educational Institutions Name as 'Conference and Workshop NIT Trichy'. Select payment category as "AICTE-FDP-TSEPG-2021".
4. Make payment through UPI/ Net Banking/ Credit card/ NEFT.
5. Once the fee is paid, fill up your details and upload the payment receipt in the workshop registration form

CO-ORDINATORS

Dr. S. Mageshwari, Assistant Professor/EEE

Dr. M. P. Selvan, Associate Professor/EEE
For any Queries: 9629930432

**National Level Five Day
Faculty Development Programme on**

**"Technologies for
Smart Electrical Power Grid"**

24th – 28th May, 2021
REGISTRATION FORM

1. Name (In block letters) :
   …………………………………….................
2. Designation:………………………………….
3. Organization:……………………….....………
4. Address for Communication
   ....
5. Mobile:……………....Land Line:..………..........
6. E-mail id :……………………………………

Registration category (Tick the boxes as per your category).

Delegate from

☐ **Mentee Institution**

☐ **Other than Mentee Institution**

Enclose Payment Details:

☐ **Deposit slip for online payment**

Dt……………….…

for Rs………………………………………………...

COMMUNICATION

The completed applications are to be sent to the following email id on or before 21.05.2021
tsepg21eee@gmail.com

Alternatively, applicant may also use the google form for registration

https://docs.google.com/forms/d/1C_tucIRVExSpittg481wgmeIVha9IU4DG2IQd7B-3FM/edit?usp=sharing