**About NMAMIT**

Situated in the Sylvan surroundings at the foot of the Western Ghats, the Nitte village is 57kms from Mangaluru city. Nitte Mahalinga Adyanthaya Memorial Institute of Technology (NMAMIT), an Autonomous Institution affiliated to Visvesvaraya Technological University (VTU) Belagavi, is a premier Institute of Nitte Education Trust (NET). The Institution, is recognized by the All India Council for Technical Education, New Delhi, is named after the first ever Engineering graduate from coastal Karnataka. The NET, (established in 1979) runs 34 Educational Institutions, five of which are at Nitte village providing serenity of the rural atmosphere with all the facilities of an urban centre. The College offers seven UG and eleven PG courses in the Engineering disciplines besides MCA and MBA courses. All the engineering branches have been recognized as Research Centre by VTU and many scholars are pursuing their research work. Institute is accredited by NAAC with ‘A’ grade and an ISO 9001:2015 Certified Institution. The Institution has been granted Academic Autonomy under the Visvesvaraya Technological University from the academic year 2007.

**About the Department**

Department of Electrical & Electronics Engineering, established in the year 1987, offers UG and PG courses. The Department has been offering M.Tech in Power Electronics (Autonomous under VTU) from the academic year 2014-15. The Department is accredited by NBA during the year 2018. Equipped with the state-of-the-art Laboratory in Power Electronics, Control Systems, Power Systems and High Voltage & Relay, the Department caters to the need of all Electrical and Electronics Engineering students. “Center for Design of Power Electronics Systems” in the Research and Innovation center provides opportunity to carryout advanced studies in the field of power electronics.

**Committees**

***Patron***

**Sri. N. Vinaya Hegde**

Presisdent, Nitte Education Trust

Honorable Chancellor, Nitte (Deemed to be University)

***General Chair***

**Dr. Niranjan N. Chiplunkar**

Pricipal, NMAMIT, Nitte

***Advisory committee***

**Dr.Panduranga Vittal,** Professor, NITK, Surathkal

**Dr. Gurunath Guralla,** Asst. Professor, IISc Bengaluru

**Dr. Suresh Jangamshetty,** Professor, BEC Bagalkot

**Dr. Sanjeev Nayak**, L&T TS, Bengaluru

**Sr. A. Yogish Hegde,** Registrar, NET, Nitte

**Dr. Ramesh Mithanthaya,** Vice Principal & Dean (Academics)

**Dr. Srinivasa Rao,** Vice Principal & COE

**Dr. Satyendra Kumar**, Professor, E&E, NMAMIT, Nitte

**Dr. Pius Pinto,** Professor, E&E, NMAMIT, Nitte

***Organizing Committee***

**Dr. Suryanarayana,** Professor, E&E, NMAMIT, Nitte

**Mr. K. V. Shettigar,** Assoc Professor, E&E, NMAMIT, Nitte

***Coordinator***

**Dr. Nagesh Prabhu,** Prof. and Head, E&E, NMAMIT, Nitte

***Co-Coordinators***

**Mr. Pradeep Kumar**, Asst. Professor, E&E, NMAMIT, Nitte

**Mr. Dinesh Shetty**, Asst. Professor, E&E, NMAMIT, Nitte

****

**AICTE Sponsored**

**Short Term Training Program**

on

**Control of Power Electronic Converters for**

**Smart Power Systems.**

|  |
| --- |
| **15th July – 20th July - 2019** |

**Organized by**

A large green field in front of a building

Description automatically generated

**Department of Electrical and Electronics Engineering**



**Outline of STTP**

The electric power industry is undergoing momentous changes in the organizational structure that significantly affects the power system operation. The growth of load demand is accompanied by high expectations on the performance and quality of power supply. Minimization of operational cost while ensuring high degree of reliability and power quality can be achieved by adapting power electronic converters. The steady growth of Indian power system has necessitated the formation of National Grid. To match the ever-growing demand, transmission system expansion with 765KV AC line, high capacity long HVDC and 400KV & 220KV HVAC transmission corridor with the application of **FACTS and HVDC controllers** are being **planned** and brings a lot of challenges to Power Engineers and Researchers for secure system operation. The proposed STTP focuses on the control of Power Electronic Converters for reliable and secured system operation of smart power systems.

**Objectives and Context**

The prime objective of the proposed STTP is to disseminate the knowledge of operation and control of power electronic converters incorporated in transmission and distribution systems integrated with renewable energy sources. The mission of the FDP is to make the participants get acquainted with MATLAB-SIMULINK based modeling of Power System, FACTS and VSC HVDC Controllers

In this context, the participants will be trained in understanding the concepts of

* Operation and control of Smart Grid
* Distributed generation and its integration to power system
* Modeling of advanced FACTS controllers: STATCOM, SSSC
* The stability analysis through Eigenvalue and transient simulations
* Modeling and Simulation of DSTATCOM and DVR for addressing power quality issues.
* Application of GA and Fuzzy logic in design and control of converters

**Resource Persons**

**Dr. Sanjeev Nayak**

Specialist (Automotive Division),

L&T Technology Services Limited, Bangalore

**Dr. Suresh. H. Jangamshetti**

Professor, Department of E&E  
Basaveshwar Engineering College, Bagalkot

**Dr. K. Panduranga Vittal**

Professor and Dean (AA&IR)

Department of E&E, NITK, Surathkal

**Dr. D N Gaonkar**

Professor,

Department of E&E, NITK, Surathkal

**Dr. Gurunath Gurrala**

Assistant Professor,

Department of E&E, IISc Bangalore

**Dr. Thirumalaivasan**

Associate Professor,

Department of E&E, VIT University, Vellore

**Dr. Janaki**

Associate Professor,

Department of E&E, VIT University, Vellore

**Dr. Prema V**

Assistant Professor, Department of E&E

RV College of Engineering, Bangalore

**Dr. Sharmeela C.**

Associate professor,

CEG, Anna University Chennai

**Target Audience**

The Training is open for Practicing Engineers, Researchers, Faculty Members in Engineering Colleges in the area of Electrical, Electronics and Telecommunication having specialization in Power Electronics / Power Systems.

**Registration Fee:** Free

**Last Date for Registration:** 30.06.2019

**Notification of Selection:** 05.07.2019

**Note:**

* A caution deposit of Rs.1000/- should be paid through DD in favor of “The Principal, NMAMIT, Nitte” payable at Nitte on selection which will be refunded on reporting and attending the STTP.
* An examination will be conducted at the end of STTP and successful candidates will be given participation certificates.

**Accommodation:** Twin sharingAccommodation will be provided to outstation participants in college campus on first come first serve basis.

**TA:** Travelling Allowance will be provided to all outstation participants as per AICTE and NMAMIT norms

**How to Apply:** The applicants should fill their registration form through Google Forms using below link:

|  |  |
| --- | --- |
| **Registration** | **Location** |
| <https://qrgo.page.link/E682R> | <https://qrgo.page.link/XFJvs> |
|  |  |

**Address for Communication**

Dr. Nagesh Prabhu,

Professor and HOD, Department of E&E

NMAMIT, Nitte, Karkala – 574110

UDUPI, Karnataka

Ph: +91 9448081488

Email: prabhunagesh@nitte.edu.in