

THE INSTITUTE

National Institute of Technology Durgapur (NITD) is a leading technical institute offering undergraduate, postgraduate and doctoral programmes in various disciplines of engineering, technology, science, social science and management. NITD was established as a Regional Engineering College (REC) in 1960 as a joint venture of the Government of India and Government of West Bengal. REC Durgapur was converted to NIT Durgapur under the full administrative and financial control of the Ministry of Human Resource Development of Government of India with a Deemed University status on 3rd July, 2003. Subsequently NITD has been given the status of a University by the UGC Act. The Institute was declared an **Institute of National Importance** by the Government of India on August 15, 2007.

The city of Durgapur is recognized as one of the fastest developing Tier-II cities in the national scenarios. Durgapur is situated at a distance of about 180 KMs from Kolkata. It is located right on the major railway and expressway (NH-2) connecting Kolkata to Delhi and Durgapur can be reached from Kolkata (and vice versa) in ~ 2 hrs. 30 mins.

THE DEPARTMENT

The Electrical Engineering course was initiated along with the Institution in 1960. Besides UG and PG courses, the Department also offers Ph.D. programme. A good number of Ph.D. degrees have been awarded under the supervision of the faculty members of the Department and a number of students are perusing for their Ph.D. degrees. The Department, over the years, has successfully completed a number of sponsored and consultancy projects. Theoretical and experimental investigations are being carried out in the areas like power systems, control systems, power electronics & machine drives, high voltage, instrumentation etc. Since inception the department is continuously contributing novel and innovative ideas in Electrical Engineering to keep pace with the latest technological developments. The department regularly organizes invited lectures by experts from academic and R&D institutions as well as industries in various fields of Electrical Engineering. The Department is well equipped with highly sophisticated and modern laboratories.

ABOUT THE SHORT TERM COURSE

The proposed Short Term Course on Modern Trends in Power Electronics, Control and Machine Drives (MTPCMD-2013) will provide proper platform to participants for discussion and presentation of the latest technologies and discoveries in the field of industrial and manufacturing theory, applications of power electronics, control systems and machine drives. MTPCMD-2013 will be a quality course providing forum for academics and industrial professionals to exchange their knowledge and state of the art of aforesaid areas. This will give enthusiasm to participants for continuing their further study and research on the subject. The course contents will be taught by eminent experts in the field, having adequate teaching and research experience. This course will offer a unique opportunity to the researchers, practicing engineers, academicians and students working in this area to acquire knowledge in current and relevant topics in Power Electronics, Control and Machine Drives.

TOPICS TO BE COVERED

The main focus of the course will be on the following topics:

- Practical Considerations on Power Electronics Systems.
- Modeling & Control of Power Electronic Converters
- Modern Control of Electrical Machines and Drives.
- Advancements in Control Engineering.
- Controller Design
- Digital Signal Processing
- Robotics & Control

CALL FOR PAPERS

In this programme, there will also be a scope of paper presentation (not mandatory) among the participants of MTPCMD-2013 covering the theme of the course. No extra fee will be charged for paper presentation.

Prospective authors are invited to submit their original technical papers for publication in the course proceedings and for oral presentation. All submissions should be in standard IEEE format with a maximum paper length of four (4) printed pages. Authors should send PDF files only for review **by E-mail to mtpcmdnitdgp@gmail.com.**

Research papers are invited on (but not limited to) the following topics:

- Power Electronics & Energy Conversion
- Modeling and simulation in power electronics
- Applications of power electronics in power system and generation/FACTS
- Power quality issues, harmonic problems and solutions
- Renewable Energy & Sustainable Development
- Power Systems
- Electronic Systems & Real Time Embedded Control
- Signal Processing & Computational Intelligence
- Electrical Machines & Drives
- Control Systems & Applications
- Mechatronics & Robotics

RESOURCE PERSONS

The resource persons constitutes of experts/faculty members from NIT Durgapur and guest speakers from other reputed institutions and industries including IIT's, Jadavpur University, BESU, CMERI, DSP etc.

WHO CAN ATTEND MTPCMD -2013

MTPCMD--2013 is aimed to attract and bring together Faculty Members, Scientists, Engineers, Technologists, Research Scholars and PG students from Academic and Research Institutions and Industries. The participants will get new insights and knowledge about the topic through close interactions/discussions with the Scientists and Experts of the respective field.

BOARDING & LODGING

Boarding, lodging and travel expenses shall be borne by the participants. Limited shared accommodations may be available in the Institute Guest House on first come first served basis. Several good hotels are available in and around Durgapur. Participants may contact directly or through the coordinator(s) for accommodation in Hotels. No TA/DA will be paid to the participants by NIT Durgapur.

REGISTRATION FORM

TEQIP-II Sponsored Short Term Course on
Modern Trends in Power Electronics, Control and
Machine Drives (MTPCMD-2013)
September 11-15, 2013

Dept. of Electrical Engineering, National Institute of
Technology, Durgapur –713209,
West Bengal, India

1. Name: _____
2. Designation & Affiliation: _____

3. Male/Female: _____
4. Mailing Address: _____

5. Mobile No. : _____
6. E-mail ID : _____
7. Registration fees: Demand Draft No. _____
Date _____ Amount _____
**(DD should be drawn in favour of “NIT
Durgapur”, payable at Durgapur.)**
8. Vegetarian / Non-Vegetarian: _____

*N.B.: Photocopy of this form may also be used for
registration.*

Place: _____ Signature of the Applicant
Date: _____

Signature and Seal of the Head of the
Department/Institute

REGISTRATION FEES

Rupees Six Thousand only (Rs. 6,000/-)

*Registration fee includes Seminar kit, study/lecture
materials and proceedings, refreshment and lunch for 5
days during the course.*

ORGANIZING COMMITTEE

Patron: Prof. T. Kumar, Director, NIT Durgapur

Advisory Committee:

Prof. P. P. Gupta, Dean (R&C)
Prof. K. C. Ghanta, Coordinator TEQIP-II
Prof. B. Halder, Nodal Officer (Academic) TEQIP-II
Prof. S.P.Ghoshal, EE Department, NIT Durgapur
Prof. S.S.Thakur, EE Department, NIT Durgapur
Prof. N.K.Roy, EE Department, NIT Durgapur

Chairman:

Prof. S. Ghosh, HOD, EE Department

Workshop Coordinators:

Prof. S. Banerjee and Dr. S.N. Mahato

Convener: Mr. J. C. Barman

Members:

Dr. T. K. Saha
Dr. J. Dey
Mr. P. S. Bhowmik
Mr. S. Sarkar

*Please send the completed application form together
with demand draft to the Coordinator on or before 4th
September, 2013. Also send the scanned copy of the said
documents by E-mail to mtpcmdnitdgp@gmail.com*

CORRESPONDING ADDRESS

Prof. S. Banerjee/ Dr. S.N. Mahato

Coordinator, MTPCMD- 2013

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M. G. Avenue, Durgapur 713 209
Mobile: 09434788057, 09434788129, 09434788175

TEQIP-II Sponsored Short Term
Course on
**Modern Trends in Power
Electronics, Control and Machine
Drives
(MTPCMD-2013)**

September 11-15, 2013

Organized by

Department of Electrical Engineering



Course Coordinators:

Prof. S. Banerjee and Dr. S.N. Mahato
Department of Electrical Engineering
National Institute of Technology Durgapur
Mahatma Gandhi Avenue
Durgapur 713 209

IMPORTANT DEADLINES:

**Deadline of paper Submission (optional): August
23, 2013**

Paper Acceptance notification: August 30, 2013

Registration Deadline: September 04, 2013