One Week Short term Course
On

Analysis of Various Electrical & Electronics Circuits and Solar PV Module

18th – 22nd January, 2021

ORGANISING TEAM

Patron

Professor (Dr.) Goutam Sutradar
Director, National Institute of Technology, Manipur

Chairman

Dr. Benjamin A Shimray
Assistant Professor, Department of Electrical Engineering
National Institute of Technology Manipur

Coordinator

Dr. Shuma Adhikari
Assistant Professor, Department of Electrical Engineering
National Institute of Technology Manipur

Convenor

Dr. Mrinal Kanti Sarkar
Assistant Professor, Department of Electrical Engineering
National Institute of Technology Manipur

DEPARTMENT OF ELECTRICAL ENGINEERING

NATIONAL INSTITUTE OF TECHNOLOGY MANIPUR WEST IMPHAL
MANIPUR, INDIA- 795004

ABOUT NIT, MANIPUR

National Institute of Technology Manipur, a centrally funded institution is set up to impart quality technical education at various levels of higher learning. It is one of the ten new NITs established and developed as the "Institute of National Importance" by an act of Parliament in 2007. NIT Manipur started its first session with the three branches of Engineering- Electrical & Electronics Engineering, Electronics & Communication Engineering, and Computer Science Engineering. The functioning of the institute was started at its temporary campus at Takyelpat, Imphal under the mentorship of NIT, Agartala. As one of the National Institutes of Technology (NIT), the Institute has the responsibility of providing high-quality education in Engineering, Technology, and Sciences to produce competent technical and scientific manpower for the country. The Institute offers B Tech, M Tech, M Sc, and Ph.D. programmers in several disciplines of Engineering, Technology, and Sciences.

ABOUT THE COURSE

This course will provide detailed ideas about some of the electrical components used in various electrical appliances, how it works in a circuit, and various useful electrical circuit laws.

Topics covered include:

- Resistive elements and networks;
- Circuit analysis methods including KCL,KVL and the node method;
- Independent and Dependent sources;
- Linearity, Superposition, Thevenin & Norton methods;
- Digital abstraction;
- Combinational gates;
- MOSFET switches and small signal;
- Experiments on PV module.

A certificate will be issued to the candidates after successful completion of the course.

OBJECTIVES OF THE COURSE

The main objectives are:

- To provide detailed ideas about the various components used in household appliances.
- Understanding the electrical laws that are governing various electrical components.
- Gathering knowledge about Solar PV Modules and the working principles that are behind the PV system.

Who can attend this STC?

Students registered in XI & XII standard

Registration fee for attending this STC = Rs 300/- including GST.

Numbers of participants are limited to 50. Shortlisted candidates will be informed through email.

Details of the Bank Account
Name: Director NIT Manipur IRG
Acc. No. 60330100000143
Bank and Branch: Bank of Baroda, NIT Manipur Campus
IFSC code: BARB0NITMAN

IMPORTANT DATES
Last Date of Registration: 15th Jan, 2021

For any query, you can contact to the course coordinator
Dr. Shuma Adhikari, Assistant Professor (EE)
Email: shumaadhikari@gmail.com; Mobile No: 9774271956

Resource Persons

Dr. Benjamin A Shimray

Dr. Benjamin A Shimray is an Assistant Professor in the Department of Electrical Engineering at National Institute of Technology Manipur.

His research interest includes Control System, soft computing, and developing decision support system for renewable energy planning.

Dr. Shuma Adhikari

Dr. Shuma Adhikari is an Assistant Professor in the Department of Electrical Engineering at National Institute of Technology Manipur.

Her research interest includes Power system protection, micro grid and FACTS devices.

Dr. Mrinal Kanti Sarkar

Dr. Mrinal Kanti Sarkar is an Assistant Professor in the Department of Electrical Engineering at National Institute of Technology Manipur.

His research interest includes Control System.

Mr Ingudam Chitrasen

Mr Ingudam Chitrasen Meitei is a Lecturer in the Department of Electrical Engineering at National Institute of Technology Manipur.

His research areas include Electrical Machines and Drives, Non-Conventional and Conventional source of Energy, Distributed Generation and Renewable Energy.

Ms. Rajkumari Malemnganbi

Ms. Rajkumari Malemnganbi is a Lecturer in the Department of Electrical Engineering at National Institute of Technology Manipur.

Her research interest includes Electric drives, Analog circuit, Power electronics and drives and renewable energy.

Mrs Laishram Khumanleima Chanu

Mrs Laishram Khumanleima Chanu is Lecturer in the Department of Electrical Engineering at National Institute of Technology Manipur.

Her research interest includes Distributed Generations and Microgrid.

Mr Devakishore Phurailatpam is Lecturer in the Department of Electrical Engineering at National Institute of Technology Manipur.

His research interest includes Control system, Signal processing and Renewable energy.

Mr Devakishore Phurailatpam

Mr Simon Tongbram is Lecturer in the Department of Electrical Engineering at National Institute of Technology Manipur.

His research interest includes Semiconductor devices and circuits, VLSI design, Communication systems, Signal processing and Image processing.

Mr Simon Tongbram

Mr Lukram Dhanachandra Singh is Lecturer in the Department of Electrical Engineering at National Institute of Technology Manipur.

His research interest includes VLSI design and embedded systems.

Mr Lukram Dhanachandra Singh