

SHORT TERM TRAINING PROGRAMME

ON

MICROGRID RENEWABLE ENERGY
TECHNOLOGIES

6th June to 11th June, 2019



IIITDM

Kancheepuram

Chennai


Attendant by:

Er. BALJEET SINGH (A.P, EED)

ER.AMANDEEP SINGH GHATORA (A.P, EED)

The starting of journey was awesome. Now we were describing first day sessions of STTP On "MRET". At first we had attended inauguration at 10:00am at Senate Hall, Administration Building IITDM. In which the director of (IITDM, Kancheepuram) was the main chief guest. After that first session was started at 10:30am which had been proceed by Dr. Vijaya Kumar (IITDM, Kancheepuram) on the topic "**Overview of wind energy conversion system and power electronics**". We were got great explorer regarding wind energy and its technologies. Then in second session lecture was delivered by Dr. Chitti Babu (IITDM, Kancheepuram) on the topic "**Control of grid interactive PV system**". It had also provided too much knowledge regarding photovoltaic techniques which was based on hardware based analysis. In the second day of STTP on MRET there was also four sessions. First session was proceed by Dr. Damodharan P (IITDM Kancheepuram) on the topic "**MPPT for wind energy conversion system**". It was too much helpful for different research methodology in the area of wind conversion. Then second session was delivered by HOD of ECE department of IITDM kancheepuram, Dr. Selvajyothi k on the interesting topic "**Observers design for power controllers**". After lunch third session was proceed by Dr. Vijaya Kumar (IITDM, Kancheepuram) on the topic "**Experimental investigations on grid and stand alone**". In the last session of day, the lecture was delivered by Dr. Pandiyarasan V (IITDM, Kancheepuram), he has done his PhD from Japan. The lecture topic was based on "**Materials for renewable energy technology**". It was based on hardware design of different material properties. On the third day STTP on 'MRET' was too much interesting due to industrial lecture session. In this case mainly two sessions were occurred with long duration lecture schedule. The first session was delivered by an expert came from "**Danfoss Industry**", his name was Dr. Paramasivam S. Actually he was working in R&D department in **Danfoss Industry** on the field of "Frequency converters in microgrids"..., His name was Dr. Azhagar Raj from industry **Power gear limited**. The main content of this session was based on "**Electrical machine design techniques in wind energy**" as well as different software applications. In the fourth day of STTP on MRET there was four sessions. First & second session was proceed by Dr. Vijaya Kumar (IITDM Kancheepuram) on the topic "**DFIG based standalone and grid connected wind conversion & different converter topologies**". It was too much helpful for different research methodology like lookup tables and scalar control in the area of electrical machine for wind conversion. He had also discuss about short circuited DFIG control topologies which was unique, simple and interesting. After lunch third & fourth session was delivered by HOD of ECE department of IITDM kancheepuram, Dr. Selvajyothi k on the interesting topic "**Experimental implementation of PLL & FLL in wind technology**". In the fifth day of STTP on MRET there was only one session. In the evening (4pm to 7pm) we had perform hands on practice in electric drive labs. This session was taken by Dr. Chitti Babu. Actually we had gain too much knowledge regarding electric drive. In the last day of Short term training program on MRET was totally practically. It has two sessions for hands on practice based on power electronics converter designing. First session of day was delivered by Kedarnath, S from Bhumitra Technologies. After lunch the last one session was also hands on practice. In the end of day valedictory function was done by coordinator of STTP, Dr. Vijaya kumar (IITDM Kancheepuram). Then certificates were distributed to all the participants.


Er. Baljeet Singh


Er. Amandeep Singh Gatora