Government College Of Engineering, Karad

(An Autonomous Institute of Government of Maharashtra)

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Date 18/03/2020

Department of Electrical engineering 2019-2020

Members of Electrical Engineering Students' Association (EESA)

Head of department	Prof. Dr. P.M. Joshi
Faculty adviser	Prof. U. S. Patil
President	Miss. Munni Bhagat
Vice President	Mr. Swapnil Chandrakant Banduke
Secretary	Mr. Saurabh Kumatkar
Guest lecture committee head	Mr. Abhijit Mhalappa Dhangar
Event committee head	Miss. Samrudhee Ghodake
Library committee head	Mrs. Avadhut Suryavanshi

EESA ACTIVITY REPORT (2019-20)

REPORT ON SWITCHGEAR TRAINING PROGRAM

INTRODUCTION TO INDUSTRIAL ELECTRICAL SYSTEM (LT14)

Training programme from

26th to 28th July 2019

at L&T's Switchgear Training Centre, Pune.

On the first day at L&T Switchgear Training centre the session was conducted on the awareness about electrical safety; Overview of Power system in India, contactors theory and demonstration, Thermal overload relay and HRC fuse. Each point was discussed briefly in the application point of view and the demonstration carried out.

On the second day of training we discussed about motor starters like DOL, Star-Delta and also learnt about the fuses, circuit breakers, SDF and there practical session.

On the last day, workshop session on ACB & MCCB, MPCB, RCCB, Isolator were executed.

Industrial Visit Report

Date of Visit :	25th February, 2020
Time :	10:30 AM To 5:00 PM
Organization Visited :	HVDC Terminal Station, MSETCL, Padgha, Mumbai 421101
No. of Student :	12
Faculty Accomplished :	Prof.S.K.mahindrakar Prof. Y.B. korsegaonkar Prof.Anuradha J. Shewale

The Maharashtra State Electricity Board (MSEB) built a 1,500 MW HVDC link between the cities of Chandrapur and Padghe (near Mumbai) - the first HVDC transmission link to Mumbai. The converter terminals were constructed by ABB (Sweden and India) and Bharat Heavy Electricals Limited (BHEL) of India. The 500 kV Chandrapur - Padghe HVDC Bipole feeds Mumbai on the west coast with 1,500 MW from a thermal power generation plant located near Chandrapur in the eastern part of Maharashtra State 752 km away. The link helps to stabilize the Maharashtra grid, increasing power flow on the existing 400 kV AC lines while minimizing total line losses.

±500 KV HVDC Padghe Plant Specification:	
Commissioning year:	1999
Power rating:	1,500 MW
No. of poles:	2
AC voltage:	400 kV (Both Ends)
DC voltage:	±500 kV
Length of overhead DC line:	752 km
Main reason for choosing HVDC:	Long distance, network stability, environmental concerns
Application:	Connecting remote generation

The main objective of this visit can be briefed as

- Visit is compulsory as a part of curriculum designed by Savitribai Phule Pune University for the subject of Power System II, Design of Electrical Machines.
- This visit was fruitful for students to bridge the gap between the theoretical and practical knowledge.

Outcome of the visit

- Students got the basic idea about Transmission Line Power Flow, Convert DC to AC, Thyristor Bank, DC and AC Switchyard Operation, Electrode Station, PLCC and SCADA System Operation, etc.
- Students got information about how to transmit power from Chandrapur and Padghe HVDC Terminal Station.
- Students observed the whole working process of Conversion of DC to AC.
- Student got information of various section of Padghe HVDC Terminal Station.
- AC Switchyard
- DC Switchyard
- Control Room
- Safety Section

Mr. Sunil Shenava (Ex.Engineer) gives the whole information about how to works HVDC terminal Station also explains HVDC Chandrapur to Padghe indication and control panel. After explanation students have visited to DC and AC Switchyard. In DC Switchyard 2 pole coming from Chandrapur power station. Mr. Sunil Shenava have explain details about centre tap isolator, lighting arrester, capacitor bank, smoothing reactor, etc. After students have visited to AC Switchyard, in AC Switchyard Mr. Yogesh Kaware explain details about AC power Transmission and Explain various equipment's in AC Switchyard.

Students found satisfactory about the industrial visit at HVDC Terminal Station, MSETCL, Padgha, Mumbai 421101


MAHATRANSCO
QUALITY OBJECTIVES
MAHARASHTRA STATE ELECTRICITY BOARD


PADGHE HVDC TERMINAL
ABB
MSEB

Report On The Art of Living Program

We had visited to The Art of Living Triveni Ashram, Markal , Pune , For the Happiness Program of The Art of Living. It was a 3 days program which is conducted at the Triveni Ashram.

It was a great pleasure to be the part of such a great program. In that , we have learnt many techniques to control the State of Mind. They thought us how to control our breath and overcome the unbalanced state of mind into the present state and how to increase our confidence.

Also we have learnt how to handle the people and how to be confident about our thoughts. The main technique that we have learnt is 'Sudarshan Kriya' in which we can stable our mind with a peacefulness of our soul. It will definitely help us in future for our personality development.

This happiness program has built a many changes in our students and helped them to control the mind for concentration. We would also like to thanks our Principal Dr. A.T. Pise sir and Head of Department Dr. P.M. Joshi sir, for giving us an opportunity and permission to conduct such program. For this great program we would like to thanks Mrs. U. S. Patil ma'am ,to organize such type of program for us, also special thanks to Mr. Yogiraj Korsegaonkar sir for their support and guidance, Last but not the least we have a great gratitude towards our mentor for this program Mrs. Shital and Mr. Prasad sir, who teach us how to live a happy life!