



Sandip Institute of Technology and Research Centre

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(Approved by-AICTE, New Delhi, & Govt. of Maharashtra and Permanently Affiliated to

Savitribai Phule Pune University (Formerly Pune University), Pune.

Accredited with "A" grade by NAAC With CGPA Score of 3.11

NBA Accredited for Computer & Mechanical Engineering(UG Course)

w.e.f. 2023-24 to 2025-26



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Industrial Visit Report

Event Title: Industrial Visit to Gauss Electromagnetics, Vilholi, Nashik.

Event Date: 29th September, 2023

Event Conduction Duration: 10.30 am to 2.00 pm

Event Venue: Vilholi, Nashik

Event Resource Person Details: Miss. Gauri Nambiar, Mr. Rahul Pansare and Mr.Hariharan Nambiar

Knowledge Concerned with Academic curriculum based Subject: Electrical Measurement and Instrumentation.

Name of Event coordinator: Prof. Sagar Deo.

Faculty Visited: Prof. T.J.Bharambe, Prof. N.A.Amodkar, Dr.O.P.Yadav, Dr.Suresh Babu

No of Participants: 22-SE.

Objective:

1. To gain a comprehensive understanding of how current transformers (CT), reactors, and transformers are designed, fabricated, assembled, and tested. Witnessing the manufacturing process firsthand can provide insights into the technology and quality control measures involved.
2. To learn about the quality control standards and rigorous testing procedures implemented in the production of these electrical components.
3. To observe the safety measures and protocols followed in the production facility to ensure the safety of workers and the integrity of the equipment.
4. To understand the burden testing, ratio and phase angle error measurement of CT and insulation resistance measurement of CT.



Outcome:

Students understood about the manufacturing process of CT, reactors and transformers, its types and type of material used for manufacturing according to the different ratings and the testing process related to it from the electrical measurement point of view.

General Information:

Gauss Electromagnetics has made a name for itself in the list of top suppliers of Electrical Transformer, Control Transformers in India. The supplier company is located in Nashik, Maharashtra and is one of the leading sellers of listed products with more than 25 years of experience in manufacturing and providing services.

Products and Services:

- APFC Panels
- Series Reactors
- Harmonic Filter Reactors
- Transformers
- VFD Chokes
- Shunt Reactors
- Current Transformers

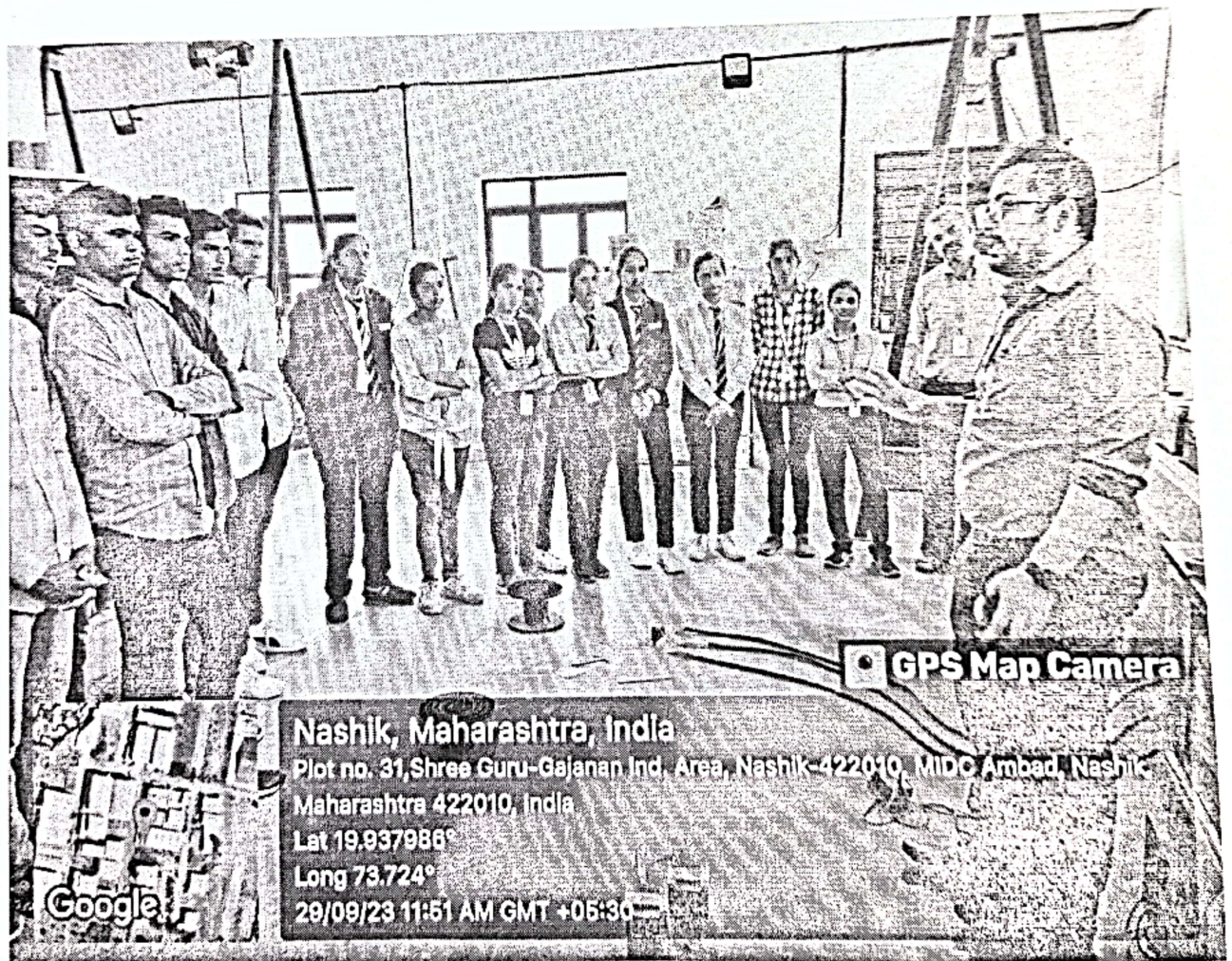
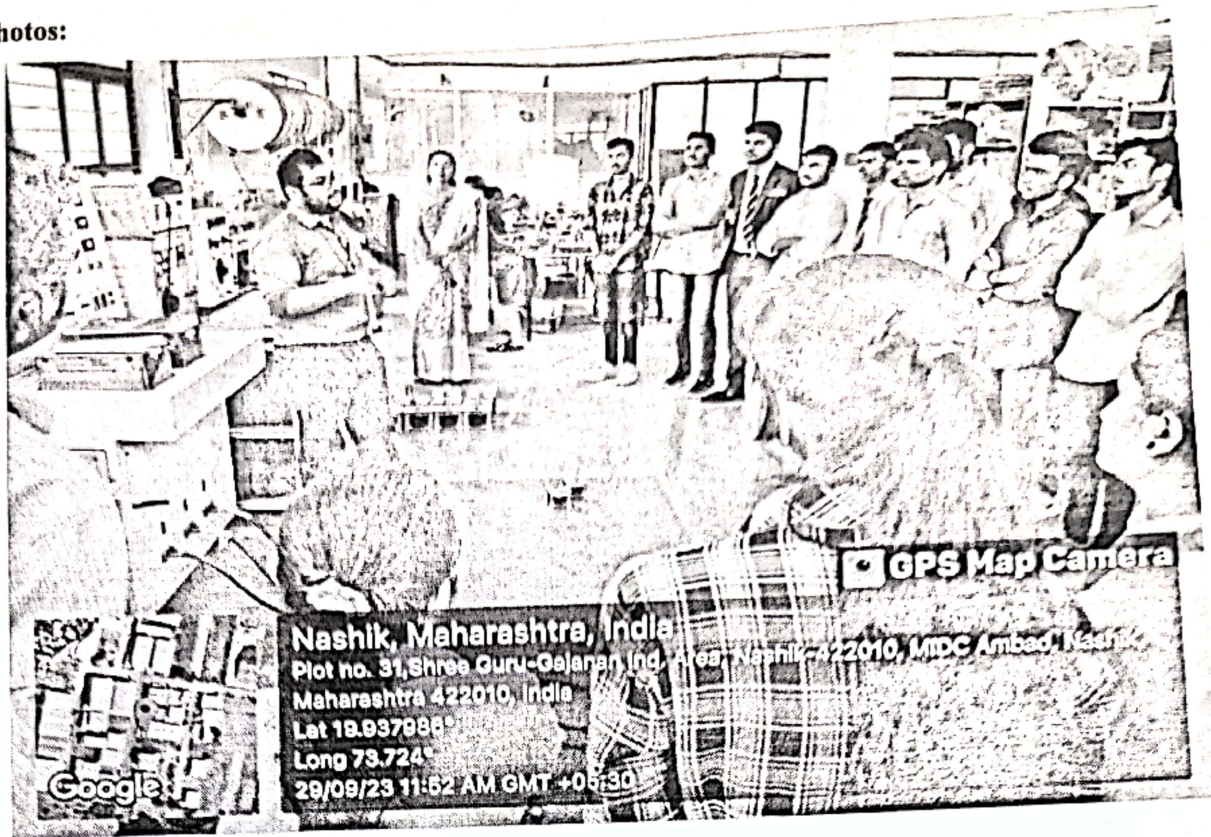
Current Transformer (CT):

Current Transformer is a type of "instrument transformer" that is designed to produce an alternating current in its secondary winding which is proportional to the current being measured in its primary. Current transformers reduce high voltage currents to a much lower value and provide a convenient way of safely monitoring the actual electrical current flowing in an AC transmission line using a standard ammeter. The principal of operation of a basic current transformer is slightly different from that of an ordinary voltage transformer.


Specification:

Secondary	5A,1A
Rated VA:	5,10,15
Type	Tape wound, wound primary type


Photos:






Dr. Nitin S. Patil
HOD Electrical




Prof. (Dr.) M.M. Patil
Principal

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