Amrutvahini College of Engineering, Sangamner
Department of Electrical Engineering
Workshop on Design & Testing of 3 phase Transformers

To
The Principal,
Amrutvahini College of Engineering,
Sangamner.
Date-02/03/2024

Sub: Regarding Permission to arrange Workshop on **Design & Testing of 3 phase Transformer for SE Electrical Engineering Students.**

Respected Sir,

With Reference to the above cited subject. I would like to inform you that Department of Electrical Engineering organizing workshop on Design & Testing of 3 phase Transformers for SE Electrical Engineering students. on 5th to 9th March 2024,Resource person for the workshop is Mr. Nachiket D Kulkarni , **N Kenin Transformers, Latur.** workshop charges is Rs - 900 per student. and total 60 students participate in this workshop.

I am requesting you kindly give permission to arrange workshop.

Thanking you.

Mr.D.D.Gaikwad
Assistant Professor
(Electrical Engg. Dept)

Conduction practical attendance TCA calls submit report.

Respected Sir,
kindly give permission to arrange the workshop.
2.3.2024.

allowed.
to conduct on 7 to 10th Feb.
2/3/24.

Following contents are covered in the Transformer Training.

1) Calculation of Voltage per Turn.
2) Calculation of Number of Turns (N1 & N2) Sec & Pri turns.
3) Calculation of Core Diameter.
4) Calculation of Core Area
5) Calculation of Number of steps & its stack.
6) Window Height (Hw) & Window Width (Ww) calculation.
7) Calculation of Overall Dimensions of Core.
8) Calculation of Approx. Weight of Core.
9) Secondary Winding Calculations
10) Primary Winding calculations.
11) Calculations of Dimensions of Tank.
12) Information about Buchholz Relay
13) Testing of Transformer. which includes following Tests..
    a. I.R. Value measurement.
    b. Winding Resistance measurement.
    c. Ratio Test.
    d. Magnetic Balance Test.
    e. Vector Group Test.
    f. Short Circuit Test.

Information about High Voltage Tests like Back To Back Test, Impulse High Voltage Test, Oil Test. e.t.c.

AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER

DEPARMENT OF ELECTRICAL ENGINEERING

Student Satisfaction Report

Department of Electrical Engineering has organized four days workshop on "Design & Testing of 3 Phase Transformer" from 07/03/2024 to 10/03/2024. Total 31 Students Participated in this workshop.

It was really helpful to Students to improve core knowledge regarding industrial applications of Design & Testing of 3 Phase Transformer. This workshop was best ways to learn, enhance skills and understanding the Transformer. It will help students for their project, internship & placement purpose. Online Feedback has been taken Successfully & all participants gave their positive feedback about this workshop.

Mr. D. D. Gaikwad

Coordinator

Dr. S. S. Kadlag

HOD

Accts allowed to release the amount Rs 22900/-

13/3/24.

AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER
DEPARTMENT OF ELECTRICAL ENGINEERING
TRANSFORMER WORKSHOP (2023-24)
ATTENDANCE SHEET

Semester: II

Class: SE

Sr. No.	Roll No.	Name of Student	07/03/24 Morning	07/03/24 Evening	09/03/24 Morning	09/03/24 Evening	10/03/24 Morning	10/03/24 Evening
1	2102	Ambre Aniket Prakash						
2	2104	Barhate Dakshata Yogesh						
3	2105	Bharade Vaishnav Sanjay						
4	2106	Bhor Yash Dipak						
5	2107	Deshmukh Mayur Pramod						
6	2108	Deshmukh Puja Nivrutti						
7	2109	Deshmukh Siddhika Shivaji						
8	2110	Dherange Viraj Ravikant						
9	2111	Dhomase Ajit Tanaji						
10	2112	Gadekar Avishkar Navnath						
11	2113	Ghule Prasad Bhausaheb						
12	2114	Gopale Kaveri Rajesh						
13	2117	Gunjal Tejas Vitthal						
14	2118	Jorvekar Omkar Nandkishor						
15	2119	Kadam Kunal Vijay						
16	2121	Kadlag Shreeraj Satish						
17	2122	Kadu Akanksha Chandrakant						
18	2124	Kakad Pooja Sandip						
19	2126	Kapadnis Neha Yogesh						
20	2128	Kolhe Sahil Bhausaheb						
21	2129	Lohakare Devendra Kacharu						
22	2131	Mengal Shashikant Ramhari						
23	2133	Nehe Nikhil Somnath						
24	2134	Nehe Shruti Dadabhau						
25	2135	Pansare Atul Devida						
26	2137	Patil Nikhil Bhaiyasaheb						
27	2138	Patil Rohan Arun						
28	2141	Pawar Dnyanesh Sunil						
29	2142	Pawar Om Satish						
30	2143	Pawar Pratiksha Shivaji						
31	2144	Pawar Reshma Chandrakant						
32	2145	Pawase Sahil Kailas						
33	2147	Rahane Abhiraj Suresh						
34	2148	Rahane Avishkar Govind						
35	2149	Rahane Pranay Rohidas						
36	2150	Rahane Sayali Babasaheb						
37	2151	Rathod Kunal Shrirang						
38	2153	~~Papal Sandesha Sandip~~ Trunmai Shelar						
39	2154	Shelke Rutika Vijay						
40	2155	Shelke Sanket Satish						
41	2156	Shinde Bhavesh Dattatray						
42	2157	Shinde Prajwal Ramdas						
43	2158	Shinde Vedant Abasaheb						
44	2160	Turakane Renuka Appasaheb						
45	2162	Vinchu Tejasvi Namdev						
46	2163	Wadekar Bhavesh Sahebrao						
47	2164	Wakchaure Abhishek Vilas						

AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER
DEPARTMENT OF ELECTRICAL ENGINEERING
TRANSFORMER WORKSHOP (2023-24)
ATTENDANCE SHEET

Semester: II **Class:** SE

49	2166	Wale Yogita Kisan							
50	2167	Waman Roshan Suresh							
51	2168	Gaikwad Rutuja Dattatray							
52	2169	Ghuge Siddhi Annasaheb							
53	2170	Jadhav Kalash Jivan							
54	2171	Kharat Sagar Balasaheb							
55	2172	Nannaware Suyog Sayaji							
56	2173	Pawar Harshada Santosh							
57	2174	Sarwade Aniket Kailas							
58	2175	Sonwane Krishna Suresh							
59	2176	Thorat Suyog Sunil							
	2178	Raut Sakshi R.							

Prof. D.D.Gaikwad
Coordinator

Dr. S.S. Kadlag
Head of the Department

AE/Elect/2023-24

Date:11.03.2024

Amrutvahini College of Engineering, Sangamner
DepartmentofElectricalEngineering Academic
Year(2023-24) Sem-2

Workshop ConductionReport

NameofWorkshop:FourDays WorkshoponDesign and Testing of 3 Phase **Transformer**forS.E.students

Date/Duration:07.03.2024-10.03.2024

Venue:Power System and Electrical Drive Lab, DepartmentofElectrical Engineering,AVCOE.

Objective:

The workshop on Design and Testing of 3 Phase Transformeraimed to equipS.E. Electrical students with essential skills and knowledge of Design Transformer for electrical engineering projects and industrial applications.

KeyHighlights:

Student Learn following Points and Design Transformer individually.

1) Calculation of Voltage per Turn.
2) Calculation of Number of Turns (N1& N2) Sec &Pri turns.
3) Calculation of Core Diameter.
4) Calculation of Core Area
5) Calculation of Number of steps & its stack.
6) Window Height (Hw) & Window Width (Ww) calculation.
7) Calculation of Overall Dimensions of Core.
8) Calculation of Approx. Weight of Core.
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    a. I.R. Value measurement.
    b. Winding Resistance measurement.
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    d. Magnetic Balance Test.
    e. Vector Group Test.
    f. Short Circuit Test.

Information about High Voltage Tests like Back To Back Test, Impulse High Voltage Test, Oil Test. etc.

Outcomes:

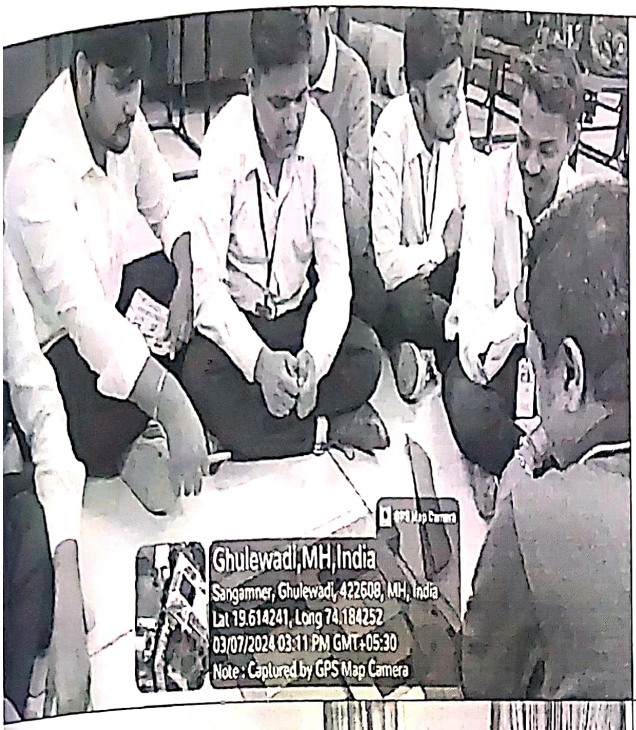
Students Learn theory as well as practical skills and knowledge essential for Transformer Design.

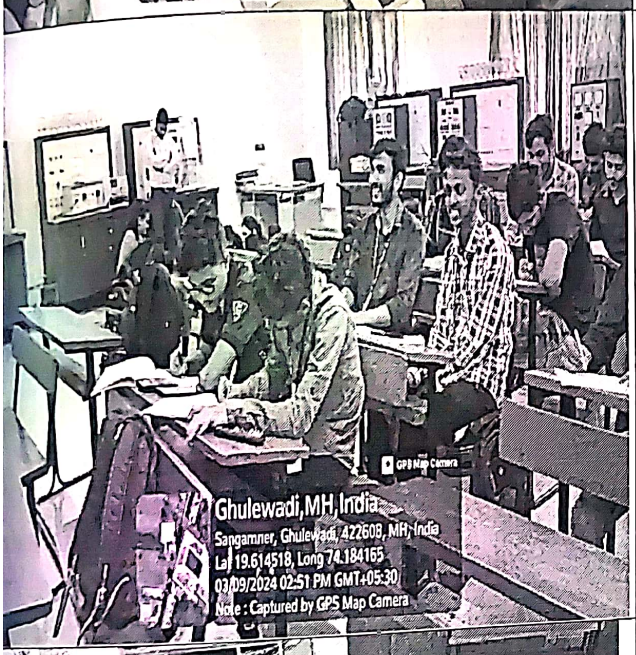
1. Hands-onPractice to Assemble transformer
2. Provideresourcesforself-paced learning andpractice
3. EncourageStudents toexplorefurtherapplicationsas well as become Entrepreneur.

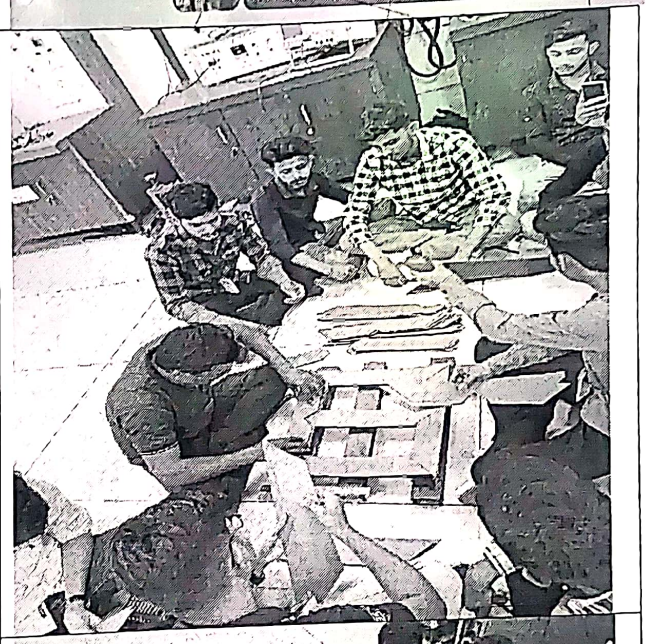
Prof.D.D.Gaikwad
Workshop Coordinator

Dr.S.S.Kadlag
Head of Department
DepartmentofElectricalEngineering

Workshop Photographs







AE/Elect/2023-24/6017

To,
The Principal,
Amrutvahini College of Engineering, Sangamner

Date: 11.03.24

Subject: Regarding permission to withdraw workshop Fees

Respected Sir,

With reference to above mention subject, I would like to inform you that Department of Electrical engineering is organized the four day workshop on **Design and Testing of 3 Phase Transformer** for Second year students from **07.03.24 to 10.03.24** by **N Kenin Transformer, Latur.**

I am kindly requesting you to pay Rs.22900 /- to Mr.Nachiket D Kulkarni, N Kenin Transformer,Latur.

Thanking You

Yours Obediently,

Prof. D.D.Gaikwad
Assistant Professor
Department of Electrical Engg

Respected Sir
N Kenin transformer Latur conducted workshop satisfactorily hence kindly give permission to release the payment of Rs. 22900/- to same party.

11. 3. 2024