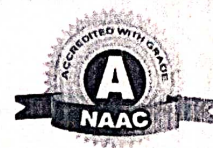


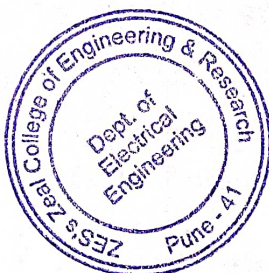


ZEAL EDUCATION SOCIETY'S
ZEAL COLLEGE OF ENGINEERING AND RESEARCH
NARHE | PUNE -41 | INDIA
DEPARTMENT OF ELECTRICAL ENGINEERING



INDEX

3.2.2 Number of workshops/seminars/conference including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during a year 2019-20			
Sr. No.	Name of the workshop/ seminar/ conference	Number of Participants	Date From- To
1	Design of 3 phase induction motor and 3 phase transformer	112	03/02/2020 to 07/02/2020 And 10/02/2020 to 14/02/2020



Head of Department

Zeal Education Society's

Zeal College of Engineering and Research, Narhe, Pune.



Department of Electrical Engineering

A

Report on,

5 days Hands-on session on

“Design of Three Phase Induction Motor & Three Phase Transformer”

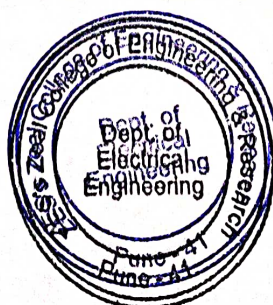
Organized by,

Department of Electrical Engineering, ZCOER, Pune.

Resource Person

:

1. Mr. Vishal L. Tathe
Assistant Professor
Department of Electrical Engineering.
ZES ZCOER, Pune.
2. Mr. Kunure Bhushan
Assistant Professor
Department of Electrical Engineering.
ZES ZCOER, Pune.
3. Mr. Satya Prakash
Assistant Professor
Department of Electrical Engineering.
ZES ZCOER, Pune.
4. Mr. Ranjit Zende
Assistant Professor
Department of Electrical Engineering.
ZES ZCOER, Pune.



ZES ZCOER
Department of Electrical Engineering

About the Hands-on session: This hands-on session is intended only for T.E. students who seek to explore the impact of Design of Three Phase Induction Motor and Three Phase Transformer in their project work. It doesn't matter how much natural talent an engineer has, he can still improve in a skill by practicing that is one of the advantage of hands on training. Training programs are more beneficial when they provide many opportunities for practicing skills. This hands-on session covers basic concepts, Design aspects, material selection and market survey and its assembly, testing & its applications in various areas.

Objective of Hands-on session : The aim of this hands on training session is:
Hands on Demonstrations with explanation

- Laws of magnetic forces
- Magnetic Flux
- Electromagnetic Induction
- Flux linkage
- Faradays First Law
- Faradays Second Law
- Lenz Law
- Mutual Induced e.m.f.
- Roll of magnetic circuit
- Effect of air gap on Magnetic Circuit
- Evolution of Induction Motor Principle

Technical Parameter Selection & Calculation Session

Calculation of Motor & Transformer Rating, Current in winding, gauge of conductor, Winding Factor, Number of turns, Core Dimensions etc.

Selection of Insulation

- Importance of Insulation
- Types of insulating paper as per temperature rating.
- Insulation material used in Induction Motor & Transformer

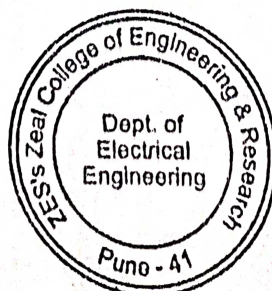
Selection of Core Material

- Importance of core
- Types of Magnetic material
- Grain Orientation and its effect
- CRGO & CONO Material
- Range of flux density for appropriate material

Hands on Experience Sessions

Coil making, Insulation assembly, Assembly of winding, Winding connections, Termination of winding terminal etc

Testing of Induction Motor



ZES ZCOER
Department of Electrical Engineering

The Department of Electrical Engineering of ZES, ZCOER has organized 5 days hands-on training on "Design of Three Phase Induction Motor and Three Phase Transformer", dated on 3rd Feb. to 7th Feb., 2020 for TE-B & 10th Feb. to 14th Feb., 2020 TE-A students

Day wise attendance report
Time:- 9a.m. to 5 p.m.

Date	TE-B Class (54)	Date	TE-A Class (62)
03/02/2020	42	10/02/2020	58
04/02/2020	50	11/02/2020	58
05/02/2020	51	12/02/2020	59
06/02/2020	52	13/02/2020	59
07/02/2020	47	14/02/2020	54

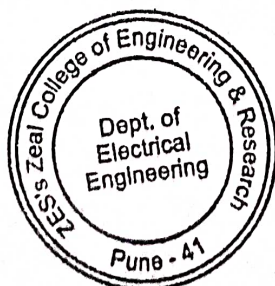
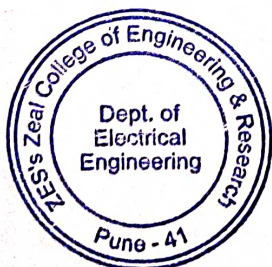
The day wise summary of workshop is as given below,

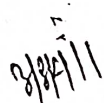
Day	Session I	Session II
1	Basic law and its demonstration	Design Calculation of IM and insulation filling in the slot of stator
2	Making of copper winding coils and placing it in to the slot	Making of copper winding coils and placing it in to the slot
3	Winding connection and Motor Assembly	Testing of IM
4	Design Calculation of Transformer	Core Assembly and winding
5	Assembly of bobbin and core	Testing of Transformer

The attendance and Photograph are attached herewith


Mr. Vishal L. Tathe

Workshop Coordinator

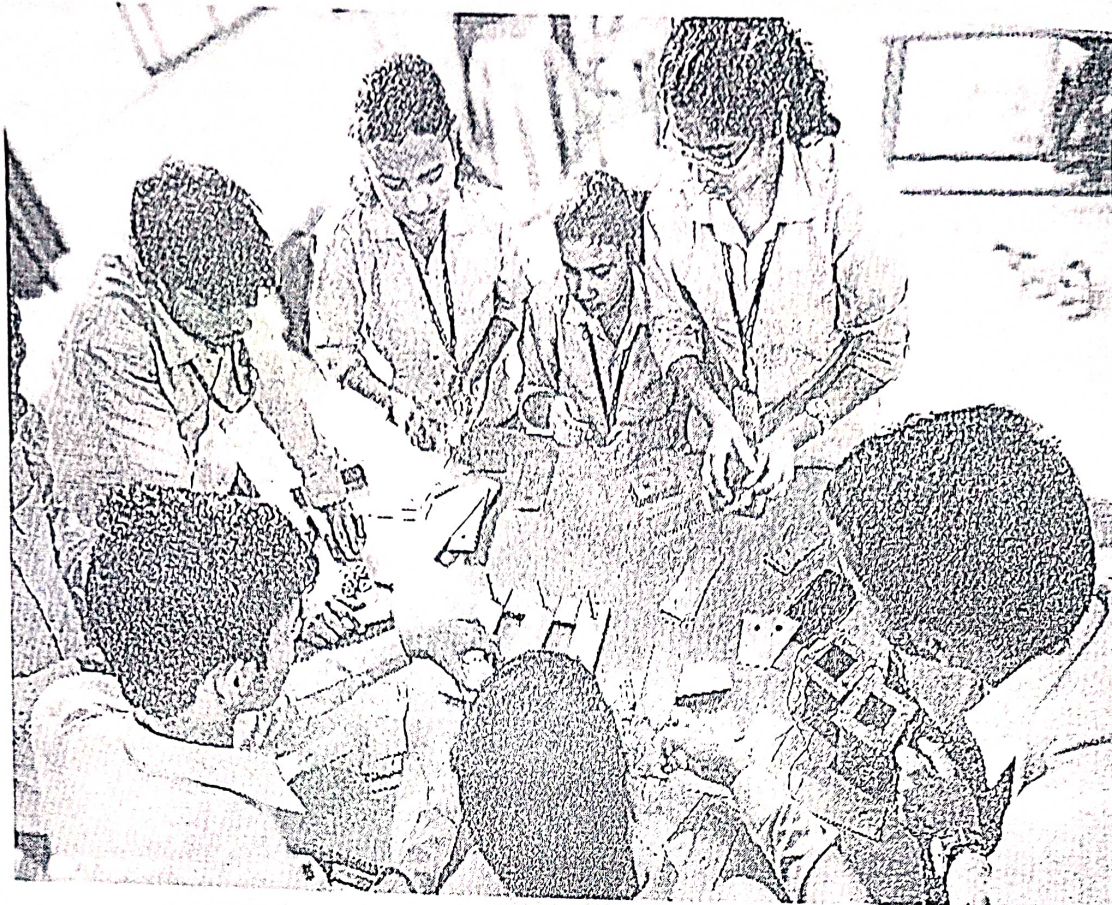



Dr. Aniket A. Khandekar

H.O.D Electrical Engg.

HOD
Dept. of Electrical Engineering
ZES's Zeal College
of Engineering & Research,
Narhe, Pune - 411 041

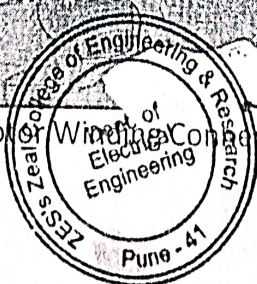
Date: 20/02/2020



Students while Assembling Transformer Core



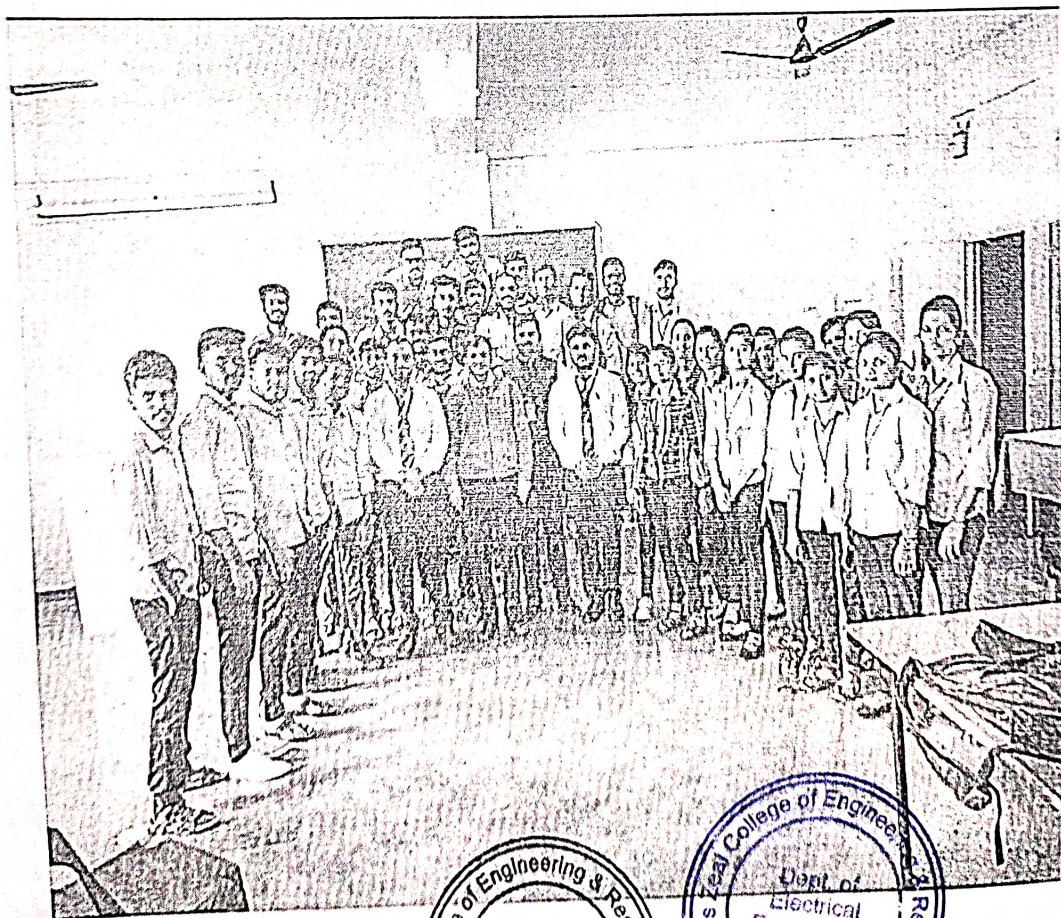
Motor Winding Connection



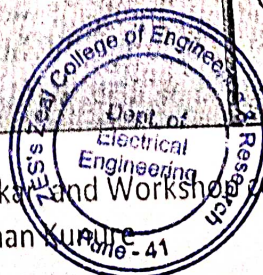
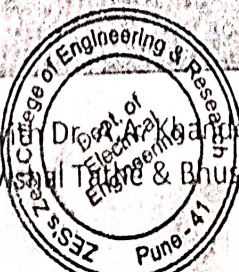
Date: 20/02/2020



Students while doing the connection of Motor



Photos of TE-A Students with Dr. Arun Kumbhakar and Workshop coordinator
Mr. Vishal Telang & Bhushan Kurle





Zeal Education Society's
ZEAL COLLEGE OF ENGINEERING AND RESEARCH
Department of Electrical Engineering

Date: 28/01/2020

Hands-on Training on

**"Design of Three Phase Induction Motor and Three
Phase Transformer"**

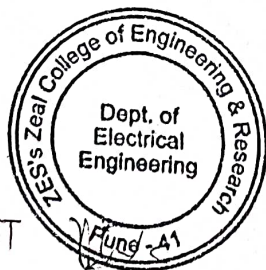
Under the subject "Design of Electrical Machines" and
"Electrical Workshop Lab" for Third Year Electrical
Engineering Students

The Schedule is under mentioned,

Division	Date
TE- A B	3 rd February to 7 th February 2020
TE- B A	10 th February to 14 th February 2020

Time: 9 am to 5 pm

Venue: Electrical Seminar Hall (C-302)



T.E-B - VLT

TE-A - BSK

318/411

H.O.D.

Dept. of Electrical Engg.

Zeal Education Society's
ZEAL COLLEGE OF ENGINEERING AND RESEARCH
 Department of Electrical Engineering

Date: - 16/01/2020

To,
 The Principal,
 ZES, ZCOER Pune.

Subject: - Regarding the requirement of material for 5 days hands on training on
 Three Phase Induction motor & 3 ϕ Transformer

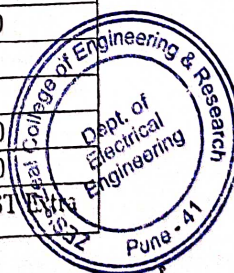
Respected sir,

With reference to above subject, we are arranging five days hands on training on three phase Induction Motor designing and Three Phase Transformer designing for the T.E. students under the subject Design of Electrical Machines and Electrical Workshop. (for Div A & B Total Students 116). As it is the part of curriculum syllabus it is beneficial to the students to understand the design of Three Phase Induction Motor & Three Phase Transformer.

For the smooth conduction of workshop we required some raw materials. The details of the material are attached herewith.

So please sanction the same approximate amount.

Sr. no.	Material	Quantity	Approximate rate	Approximate cost
1.	Copper (for Motor)	16 kg	650	10400
2.	Sleeves	10	20	200
3.	Insulation Paper	7 mil 5 mil	-	500
4.	Cello Tape	20	5	100
5.	1.5 sq.mm lead wire	1 bundle	-	1000
6.	Soft hammer	2	130	260
7.	Labor cost to remove winding and clean motor	1	300	300
8.	Copper (For Transformer)	15 kg	650	9000
9.	Seasor	5	25	125
10.	Sleeves	15nos	NA	600
11.	Bakelite bobbin	20 nos.	NA	2000
12.	Miscellaneous	NA	NA	2000
Approximate Total				26485 + GST



Thanking you

Recd. on 28/01/2020

Forwarded to Principal
 for approval
 8/1/2020

Mon
 16/01/2020

Forwarded to
 Principal sir for
 approval.
 16/1/2020

Yours faithfully,

Vishal Tathe

To Executive Director
 recommended & approved
 16/1/2020

S.A. 27

ZES's Zeal College of Engineering, Narhe, Pune
Department of Electrical Engineering

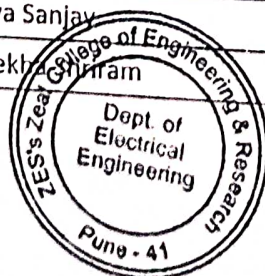
Hands on Training on "Design of 3phase Induction Motor & Transformer"

Class : T. E. Electrical - B DIV

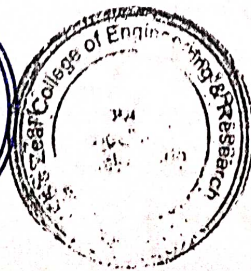
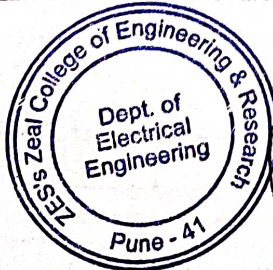
From - 3/2/2020 - 07/02/2020

Name of Faculty : Mr. V.L. Tathe / Mr. Satya Prakash /Mr. B.S. Kunure

S.N	Roll No.	Name of Student	Sign (03/02/2020)	
			Forenoon	Afternoon
1	T422001	Bansode Yogesh Shivshankar		
2	T422002	Bhasme Harshada Rajendra		
3	T422003	Bhosale Pravin Tanaji NSS	 AB	 AB
4	T422004	Choudante Ashit Bapurao		
5	T422005	Danke Aakanksha Laxmikant		
6	T422006	Daware Akash Sunil		
7	T422007	Dhane Kalyani Dilip		
8	T422008	Gaikwad Gajanan Satish		
9	T422009	Gaikwad Smita Sanjay	 AB	 AB
10	T422010	Gavali Mukesh Dilip		
11	T422011	Gunda Vinit Vithal		
12	T422012	Hadge Bhakti Santosh		
13	T422013	Hankare Pranaya Prakash	 AB	 AB
14	T422014	Honmane Aishwarya Ashokrao		
15	T422015	Hosale Nikhil Nagendra	 Nikhil	 Nikhil
16	T422016	Jadhav Prajakta Anil	 AB	 AB
17	T422017	Jadhav Suraj Madhukar		
18	T422019	Junare Prathamesh Ashok NSS	 AB	 AB
19	T422020	Kadam Vaibhavi Vijay		
20	T422021	Kagadi Arbaz Raju		
21	T422022	Kale Pranita Ramesh		
22	T422023	Kanase Vivek Lahu		
23	T422024	Kankumbkar Karan Manohar	 AB	 AB
24	T422025	Kendre Manisha Vyankat		
25	T422026	Kulkarni Aditya Sanjay		
26	T422027	Kulkarni Shrelekha		



S.N	Roll No.	Name of Student	Sign (03/02/2020)	
			Forenoon	Afternoon
27	T422029	Magar Saurabh Dattatray	<i>Magar</i>	<i>Magar</i>
28	T422030	Mali Rushikesh Rajaram	<i>Mali</i>	<i>Mali</i>
29	T422031	Matte Chandragupta Ashok	<i>Matte</i>	<i>Matte</i>
30	T422032	More Atharv Rajendra	<i>More</i>	<i>More</i>
31	T422033	Nalawade Ragini Balaso	<i>AB</i>	<i>AB</i>
32	T422034	Padalkar Girish Mahadeo	<i>G.M. Padalkar</i>	<i>G.M. Padalkar</i>
33	T422035	Pandey Pratik Ramsharan	<i>Pandey</i>	<i>Pandey</i>
34	T422036	Parab Pranav Upkar	<i>Parab</i>	<i>Parab</i>
35	T422037	Patil Abhishek Siddharaj NSS	<i>AB</i>	<i>AB</i>
36	T422038	Patil Pratik Bhagwat	<i>Patil</i>	<i>Patil</i>
37	T422039	Patil Rupashree Shantikumar	<i>B. Patil</i>	<i>B. Patil</i>
38	T422040	Patil Rutika Sunil	<i>Patil</i>	<i>Patil</i>
39	T422041	Patil Shweta Lalaso	<i>AB</i>	<i>AB</i>
40	T422042	Patil Vaibhavi Vitthal	<i>Patil</i>	<i>Patil</i>
41	T422043	Patil Vishranti Shivajirao	<i>Patil</i>	<i>Patil</i>
42	T422044	Pawar Rupali Vijaysing	<i>Pawar</i>	<i>Pawar</i>
43	T422045	Salve Akash Ashok	<i>Salve</i>	<i>Salve</i>
44	T422046	Salve Harshad Chandrakant	<i>H.C. Salve</i>	<i>H.C. Salve</i>
45	T422047	Sathe Akash Sonba	<i>Sathe</i>	<i>Sathe</i>
46	T422048	Shaikh Sana Asif	<i>shaikh.S.A</i>	<i>shaikh.S.A</i>
47	T422050	Surwase Ritika Ganesh	<i>Surwase</i>	<i>Surwase</i>
48	T422051	Sutar Rohan Kundalik NSS	<i>AB</i>	<i>AB</i>
49	T422052	Tilekar Vaishnavi Anil NSS	<i>AB</i>	<i>AB</i>
50	T422053	Vilegave Ajay Shivaji	<i>Ajay</i>	<i>Ajay</i>
51	T422054	Wasate Komal Gautam	<i>Wasate</i>	<i>Wasate</i>
52	T422055	Yalgonde Shubham Tanaji	<i>Yalgonde</i>	<i>Yalgonde</i>
53	T422056	Zambre Swapnali Shivalji NSS	<i>AB</i>	<i>AB</i>
54	T411045	Papanwar Shweta Gajanan	<i>Papanwar</i>	<i>Papanwar</i>



Present — 42
Absent — 12

V. L. T.
Mrs. V. L. Teltche

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Department of Electrical Engineering

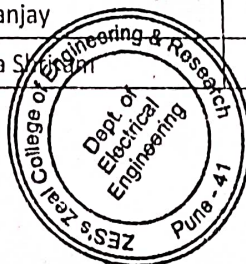
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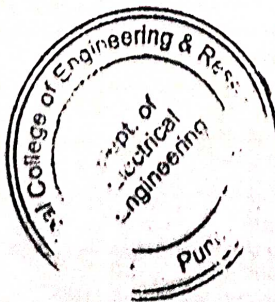
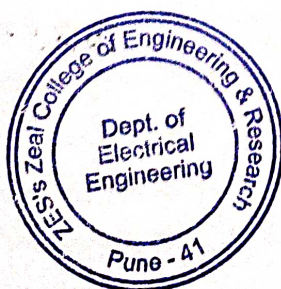
From - 3/2/2020 - 07/02/2020

Name of Faculty : Mr. V.L. Tathe / Mr. Satya Prakash /Mr. B.S. Kumbre

S.N	Roll No.	Name of Student	Sign (04/02/2020)	
			Forenoon	Afternoon
1	T422001	Bansode Yogesh Shivshankar	Y. Bansode	Y. Bansode
2	T422002	Bhasme Harshada Rajendra	B. Bhasme	B. Bhasme
3	T422003	Bhosale Pravin Tanaji	P. Bhosale	P. Bhosale
4	T422004	Choudante Ashit Bapurao	A. Choudante	A. Choudante
5	T422005	Danke Aakanksha Laxmikant	A. Danke	A. Danke
6	T422006	Daware Akash Sunil	A. Daware	A. Daware
7	T422007	Dhane Kalyani Dilip	K. Dhane	K. Dhane
8	T422008	Gaikwad Gajanan Satish	G. Gaikwad	G. Gaikwad
9	T422009	Gaikwad Smita Sanjay	AB	AB
10	T422010	Gavali Mukesh Dilip	M. Gavali	M. Gavali
11	T422011	Gunda Vinit Vithai	V. Gunda	V. Gunda
12	T422012	Hadge Bhakti Santosh	B. Hadge	B. Hadge
13	T422013	Hankare Pranaya Prakash	AB	AB
14	T422014	Honmane Aishwarya Ashokrao	A. Honmane	A. Honmane
15	T422015	Hosale Nikhil Nagendra	N. Hosale	N. Hosale
16	T422016	Jadhav Prajakta Anil	P. Jadhav	P. Jadhav
17	T422017	Jadhav Suraj Madhukar	S. Jadhav	S. Jadhav
18	T422019	Junare Prathamesh Ashok	P. Junare	P. Junare
19	T422020	Kadam Vaibhavi Vijay	V. Kadam	V. Kadam
20	T422021	Kagadi Arbaz Raju	A. Kagadi	A. Kagadi
21	T422022	Kale Pranita Ramesh	P. Kale	P. Kale
22	T422023	Kanase Vivek Lahu	V. Kanase	V. Kanase
23	T422024	Kankumbkar Karan Manohar	AB	AB
24	T422025	Kendre Manisha Vyankat	M. Kendre	M. Kendre
25	T422026	Kulkarni Aditya Sanjay	A. Kulkarni	A. Kulkarni
26	T422027	Kulkarni Shrilekha Shri	S. Kulkarni	S. Kulkarni



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			Forenoon	Afternoon
27	T422029	Magar Saurabh Dattatray	<i>Saurabh</i>	<i>Saurabh</i>
28	T422030	Mali Rushikesh Rajaram	<i>Rushikesh</i>	<i>Rushikesh</i>
29	T422031	Matte Chandragupta Ashok	<i>Chandragupta</i>	<i>Chandragupta</i>
30	T422032	More Atharv Rajendra	<i>Atharv</i>	<i>Atharv</i>
31	T422033	Nalawade Ragini Balaso	AB	AB
32	T422034	Padalkar Girish Mahadeo	<i>Girish Padalkar</i>	<i>Girish Padalkar</i>
33	T422035	Pandey Pratik Ramsharan	<i>Pratik</i>	<i>Pratik</i>
34	T422036	Parab Pranav Upkar	<i>Pranav</i>	<i>Pranav</i>
35	T422037	Patil Abhishek Siddharaj	<i>Abhishek</i>	<i>Abhishek</i>
36	T422038	Patil Pratik Bhagwat	<i>Pratik</i>	<i>Pratik</i>
37	T422039	Patil Rupashree Shantikumar	<i>Rupashree</i>	<i>Rupashree</i>
38	T422040	Patil Rutika Sunil	AB	AB
39	T422041	Patil Shweta Lalaso	<i>Shweta</i>	<i>Shweta</i>
40	T422042	Patil Vaibhavi Vitthal	<i>Vaibhavi</i>	<i>Vaibhavi</i>
41	T422043	Patil Vishranti Shivajirao	<i>Vishranti</i>	<i>Vishranti</i>
42	T422044	Pawar Rupali Vijaysing	<i>Rupali</i>	<i>Rupali</i>
43	T422045	Salve Akash Ashok	<i>Akash</i>	<i>Akash</i>
44	T422046	Salve Harshad Chandrakant	<i>Harshad</i>	<i>Harshad</i>
45	T422047	Sathe Akash Sonba	<i>Akash</i>	<i>Akash</i>
46	T422048	Shaikh Sana Asif	<i>Shaikh S.A</i>	<i>Shaikh S.A</i>
47	T422050	Surwase Ritika Ganesh	<i>Ritika</i>	<i>Ritika</i>
48	T422051	Sutar Rohan Kundalik	<i>Rohan</i>	<i>Rohan</i>
49	T422052	Tilekar Vaishnavi Anil	<i>Vaishnavi</i>	<i>Vaishnavi</i>
50	T422053	Vilegave Ajay Shivaji	<i>Ajay</i>	<i>Ajay</i>
51	T422054	Wasate Komal Gautam	<i>Komal</i>	<i>Komal</i>
52	T422055	Yalgonde Shubham Tanaji	<i>Shubham</i>	<i>Shubham</i>
53	T422056	Zambre Swapnali Shivaji	<i>Swapnali</i>	<i>Swapnali</i>
54	T411045	Papanwar Shweta Gajanan	<i>Shweta</i>	<i>Shweta</i>



Present - 50

Absent - 4

V.L.

Mr. V. L. Tathe.

ZES's Zeal College of Engineering, Narhe, Pune
Department of Electrical Engineering

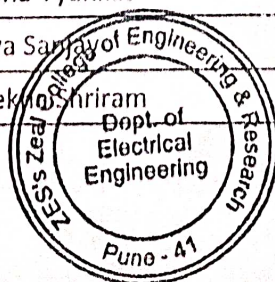
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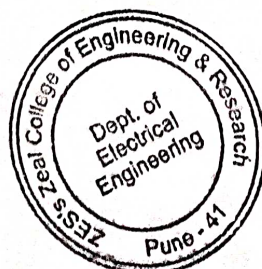
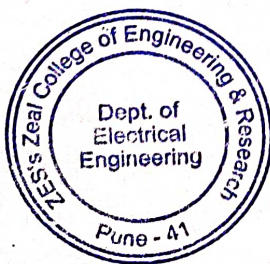
From - 3/2/2020 - 07/02/2020

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7	T422007	Dhane Kalyani Dilip		
8	T422008	Gaikwad Gajanan Satish		
9	T422009	Gaikwad Smita Sanjay	AB	AB
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22	T422023	Kanase Vivek Lahu		
23	T422024	Kankumbkar Karan Manohar	AB	AB
24	T422025	Kendre Manisha Vyankat		
25	T422026	Kulkarni Aditya Santosh		
26	T422027	Kulkarni Shrilekha Shriram		



S.N	Roll No.	Name of Student	Sign (05/02/2020)	
			Forenoon	Afternoon
27	T422029	Magar Saurabh Dattatray	<i>Saurabh</i>	<i>Saurabh</i>
28	T422030	Mali Rushikesh Rajaram	<i>Rushikesh</i>	<i>Rushikesh</i>
29	T422031	Matte Chandragupta Ashok	<i>Chandragupta</i>	<i>Chandragupta</i>
30	T422032	More Atharv Rajendra	<i>Atharv</i>	<i>Atharv</i>
31	T422033	Nalawade Ragini Balaso	A B	A B
32	T422034	Padalkar Girish Mahadeo	<i>Girish Padalkar</i>	<i>Girish Padalkar</i>
33	T422035	Pandey Pratik Ramsharan	<i>Pratik</i>	<i>Pratik</i>
34	T422036	Parab Pranav Upkar	<i>Pranav</i>	<i>Pranav</i>
35	T422037	Patil Abhishek Siddharaj	<i>Abhishek</i>	<i>Abhishek</i>
36	T422038	Patil Pratik Bhagwat	<i>Pratik</i>	<i>Pratik</i>
37	T422039	Patil Rupashree Shantikumar	<i>Rupashree</i>	<i>Rupashree</i>
38	T422040	Patil Rutika Sunil	<i>Rutika</i>	<i>Rutika</i>
39	T422041	Patil Shweta Lalaso	<i>Shweta</i>	<i>Shweta</i>
40	T422042	Patil Vaibhavi Vitthal	<i>Vaibhavi</i>	<i>Vaibhavi</i>
41	T422043	Patil Vishranti Shivajirao	<i>Vishranti</i>	<i>Vishranti</i>
42	T422044	Pawar Rupali Vijaysing	<i>Rupali</i>	<i>Rupali</i>
43	T422045	Saive Akash Ashok	<i>Akash</i>	<i>Akash</i>
44	T422046	Salve Harshad Chandrakant	<i>Harshad</i>	<i>Harshad</i>
45	T422047	Sathe Akash Sonba	<i>Akash</i>	<i>Akash</i>
46	T422048	Shaikh Sana Asif	<i>Sana</i>	<i>Sana</i>
47	T422050	Surwase Ritika Ganesh	<i>Ritika</i>	<i>Ritika</i>
48	T422051	Sutar Rohan Kundalik	<i>Rohan</i>	<i>Rohan</i>
49	T422052	Tilekar Vaishnavi Anil	<i>Vaishnavi</i>	<i>Vaishnavi</i>
50	T422053	Vilegave Ajay Shivaji	<i>Ajay</i>	<i>Ajay</i>
51	T422054	Wasate Komal Gautam	<i>Komal</i>	<i>Komal</i>
52	T422055	Yalgonde Shubham Tanaji	<i>Shubham</i>	<i>Shubham</i>
53	T422056	Zambre Swapnali Shivaji	<i>Swapnali</i>	<i>Swapnali</i>
54	T411045	Papanwar Shweta Gajanan	<i>Shweta</i>	<i>Shweta</i>



Present - 51

Absent - 3

V.L.T.

Mr. V. L. Tathe

ZES's Zeal College of Engineering, Narhe, Pune
Department of Electrical Engineering

S.N	Roll No.
27	T42200

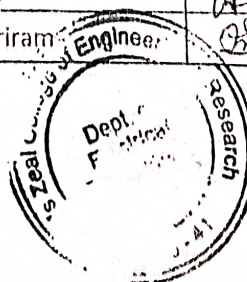
Hands on Training on "Design of 3phase Induction Motor & Transformer"

Class : T. E. Electrical - B DIV

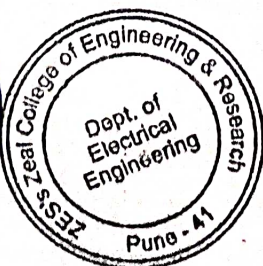
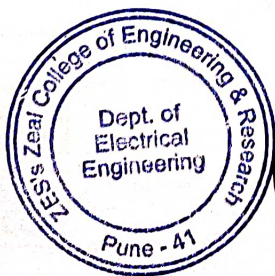
From - 3/2/2020 - 07/02/2020

Name of Faculty : Mr. V.L. Tathe / Mr. Satya Prakash /Mr. B.S. Kunure

S.N	Roll No.	Name of Student	Sign (06/02/2020)	
			Forenoon	Afternoon
1	T422001	Bansode Yogesh Shivshankar		
2	T422002	Bhasme Harshada Rajendra		
3	T422003	Bhosale Pravin Tanaji		
4	T422004	Choudante Ashit Bapurao		
5	T422005	Danke Aakanksha Laxmikant		
6	T422006	Daware Akash Sunil		
7	T422007	Dhane Kalyani Dilip		
8	T422008	Gaikwad Gajanan Satish		
9	T422009	Gaikwad Smita Sanjay		
10	T422010	Gavali Mukesh Dilip		
11	T422011	Gunda Vinit Vithal		
12	T422012	Hadge Bhakti Santosh		
13	T422013	Hankare Pranaya Prakash		
14	T422014	Honmane Aishwarya Ashokrao		
15	T422015	Hosale Nikhil Nagendra		
16	T422016	Jadhav Prajakta Anil		
17	T422017	Jadhav Suraj Madhukar		
18	T422019	Junare Prathamesh Ashok		
19	T422020	Kadam Vaibhavi Vijay		
20	T422021	Kagadi Arbaz Raju		
21	T422022	Kale Pranita Ramesh		
22	T422023	Kanase Vivek Lahu		
23	T422024	Kankumbkar Karan Manohar		
24	T422025	Kendre Manisha Vyankat		
25	T422026	Kulkarni Aditya Sanjay		
26	T422027	Kulkarni Shrilekha Shriram		



S.N	Roll No.	Name of Student	Sign (06/02/2020)	
			Forenoon	Afternoon
27	T422029	Magar Saurabh Dattatray	<i>Saurabh</i>	<i>Saurabh</i>
28	T422030	Mali Rushikesh Rajaram	<i>Rushikesh</i>	<i>Rushikesh</i>
29	T422031	Matte Chandragupta Ashok	<i>Chandragupta</i>	<i>Chandragupta</i>
30	T422032	More Atharv Rajendra	<i>Atharv</i>	<i>Atharv</i>
31	T422033	Nalawade Ragini Balaso	<i>A.B.</i>	<i>A.B.</i>
32	T422034	Padalkar Girish Mahadeo	<i>G.A. Padalkar</i>	<i>G.A. Padalkar</i>
33	T422035	Pandey Pratik Ramsharan	<i>Pratik</i>	<i>Pratik</i>
34	T422036	Parab Pranav Upkar	<i>Pranav</i>	<i>Pranav</i>
35	T422037	Patil Abhishek Siddharaj	<i>Abhishek</i>	<i>Abhishek</i>
36	T422038	Patil Pratik Bhagwat	<i>Pratik</i>	<i>Pratik</i>
37	T422039	Patil Rupashree Shantikumar	<i>Rupashree</i>	<i>Rupashree</i>
38	T422040	Patil Rutika Sunil	<i>Rutika</i>	<i>Rutika</i>
39	T422041	Patil Shweta Lalaso	<i>Shweta</i>	<i>Shweta</i>
40	T422042	Patil Vaibhavi Vitthal	<i>Vaibhavi</i>	<i>Vaibhavi</i>
41	T422043	Patil Vishranti Shivajirao	<i>Vishranti</i>	<i>Vishranti</i>
42	T422044	Pawar Rupali Vijaysing	<i>Rupali</i>	<i>Rupali</i>
43	T422045	Salve Akash Ashok	<i>Akash</i>	<i>Akash</i>
44	T422046	Salve Harshad Chandrakant	<i>Harshad</i>	<i>Harshad</i>
45	T422047	Sathe Akash Sonba	<i>Akash</i>	<i>Akash</i>
46	T422048	Shaikh Sana Asif	<i>Shaikh.S.A</i>	<i>Shaikh.S.A</i>
47	T422050	Surwase Ritika Ganesh	<i>Ritika</i>	<i>Ritika</i>
48	T422051	Sutar Rohan Kundalik	<i>Rohan</i>	<i>Rohan</i>
49	T422052	Tilekar Vaishnavi Anil	<i>Vaishnavi</i>	<i>Vaishnavi</i>
50	T422053	Vilegave Ajay Shivaji	<i>Ajay</i>	<i>Ajay</i>
51	T422054	Wasate Komal Gautam	<i>Komal</i>	<i>Komal</i>
52	T422055	Yalgonde Shubham Tanaji	<i>Shubham</i>	<i>Shubham</i>
53	T422056	Zambre Swapnali Shivaji	<i>Swapnali</i>	<i>Swapnali</i>
54	T411045	Papanwar Shweta Gajanan	<i>Shweta</i>	<i>Shweta</i>



Present - 52
absent - 2

V.L.C.
Mr. V. L. Tathe

S.N

ZES's Zeal College of Engineering, Narhe, Pune
Department of Electrical Engineering

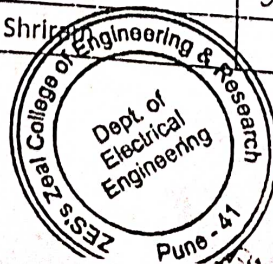
Hands on Training on "Design of 3phase Induction Motor & Transformer"

From - 3/2/2020 - 07/02/2020

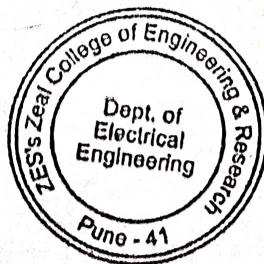
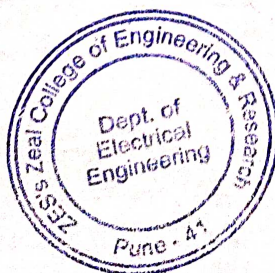
Class : T. E. Electrical - B DIV

Name of Faculty : Mr. V.L. Tathe / Mr. Satya Prakash / Mr. B.S. Kunure

S.N	Roll No.	Name of Student	Sign (07/02/2020)	
			Forenoon	Afternoon
1	T422001	Bansode Yogesh Shivshankar	<i>[Signature]</i>	<i>[Signature]</i>
2	T422002	Bhasme Harshada Rajendra	<i>[Signature]</i>	<i>[Signature]</i>
3	T422003	Bhosale Pravin Tanaji	<i>[Signature]</i>	<i>[Signature]</i>
4	T422004	Choudante Ashit Bapurao	<i>[Signature]</i>	<i>[Signature]</i>
5	T422005	Danke Aakanksha Laxmikant	<i>[Signature]</i>	<i>[Signature]</i>
6	T422006	Daware Akash Sunil	<i>[Signature]</i>	<i>[Signature]</i>
7	T422007	Dhane Kalyani Dilip	<i>[Signature]</i>	<i>[Signature]</i>
8	T422008	Gaikwad Gajanan Satish	<i>[Signature]</i>	<i>[Signature]</i>
9	T422009	Gaikwad Smita Sanjay	<i>[Signature]</i>	<i>[Signature]</i>
10	T422010	Gavali Mukesh Dilip	<i>[Signature]</i>	<i>[Signature]</i>
11	T422011	Gunda Vinit Vithal	<i>[Signature]</i>	<i>[Signature]</i>
12	T422012	Hadge Bhakti Santosh	<i>[Signature]</i>	<i>[Signature]</i>
13	T422013	Hankare Pranaya Prakash	<i>[Signature]</i>	<i>[Signature]</i>
14	T422014	Honmane Aishwarya Ashokrao	<i>[Signature]</i>	<i>[Signature]</i>
15	T422015	Hosale Nikhil Nagendra	<i>[Signature]</i>	<i>[Signature]</i>
16	T422016	Jadhav Prajakta Anil	<i>[Signature]</i>	<i>[Signature]</i>
17	T422017	Jadhav Suraj Madhukar	<i>[Signature]</i>	<i>[Signature]</i>
18	T422019	Junare Prathamesh Ashok	<i>[Signature]</i>	<i>[Signature]</i>
19	T422020	Kadam Vaibhavi Vijay	<i>[Signature]</i>	<i>[Signature]</i>
20	T422021	Kagadi Arbaz Raju	<i>[Signature]</i>	<i>[Signature]</i>
21	T422022	Kale Pranita Ramesh	<i>[Signature]</i>	<i>[Signature]</i>
22	T422023	Kanase Vivek Lahu	<i>[Signature]</i>	<i>[Signature]</i>
23	T422024	Kankumbkar Karan Manohar	<i>[Signature]</i>	<i>[Signature]</i>
24	T422025	Kendre Manisha Vyankat	<i>[Signature]</i>	<i>[Signature]</i>
25	T422026	Kulkarni Aditya Sanjay	<i>[Signature]</i>	<i>[Signature]</i>
26	T422027	Kulkarni Shrilekha Shrinivas	<i>[Signature]</i>	<i>[Signature]</i>



S.N	Roll No.	Name of Student	Sign (07/02/2020)	
			Forenoon	Afternoon
27	T422029	Magar Saurabh Dattatray	<u>Saurabh</u>	<u>Saurabh</u>
28	T422030	Mali Rushikesh Rajaram	<u>Rushikesh</u>	<u>Rushikesh</u>
29	T422031	Matte Chandragupta Ashok	<u>Matte</u>	<u>Matte</u>
30	T422032	More Atharv Rajendra	<u>Atharv</u>	<u>Atharv</u>
31	T422033	Nalawade Ragini Balaso	AB	AB
32	T422034	Padalkar Girish Mahadeo	<u>Girish Padalkar</u>	<u>Girish Padalkar</u>
33	T422035	Pandey Pratik Ramsharan	<u>Pratik</u>	<u>Pratik</u>
34	T422036	Parab Pranav Upkar	<u>Pranav</u>	<u>Pranav</u>
35	T422037	Patil Abhishek Siddharaj	AB	AB
36	T422038	Patil Pratik Bhagwat	<u>Pratik</u>	<u>Pratik</u>
37	T422039	Patil Rupashree Shantikumar	<u>Rupashree</u>	<u>Rupashree</u>
38	T422040	Patil Rutika Sunil	<u>Rutika</u>	<u>Rutika</u>
39	T422041	Patil Shweta Lalaso	<u>Shweta</u>	<u>Shweta</u>
40	T422042	Patil Vaibhavi Vitthal	<u>Vaibhavi</u>	<u>Vaibhavi</u>
41	T422043	Patil Vishranti Shivajirao	<u>Vishranti</u>	<u>Vishranti</u>
42	T422044	Pawar Rupali Vijaysing	<u>Rupali</u>	<u>Rupali</u>
43	T422045	Salve Akash Ashok	<u>Akash</u>	<u>Akash</u>
44	T422046	Salve Harshad Chandrakant	<u>H.C. Salve</u>	<u>H.C. Salve</u>
45	T422047	Sathe Akash Sonba	<u>Akash</u>	<u>Akash</u>
46	T422048	Shaikh Sana Asif	<u>Shaikh S.A.</u>	<u>Shaikh S.A.</u>
47	T422050	Surwase Ritika Ganesh	<u>Ritika</u>	<u>Ritika</u>
48	T422051	Sutar Rohan Kundalik	AB	AB
49	T422052	Tilekar Vaishnavi Anil	AB	AB
50	T422053	Vilegave Ajay Shivaji	<u>Ajay</u>	<u>Ajay</u>
51	T422054	Wasate Komal Gautam	<u>Komal</u>	<u>Komal</u>
52	T422055	Yalgonde Shubham Tanaji	<u>Yalgonde</u>	<u>Yalgonde</u>
53	T422056	Zambre Swapnali Shivaji	AB	AB
54	T411045	Papanwar Shweta Gajanan	<u>Shweta</u>	<u>Shweta</u>



Present - 47
absent - 7

V.L.T.
Mr. V.L. Tathe

ZES's Zeal College of Engineering, Narhe, Pune

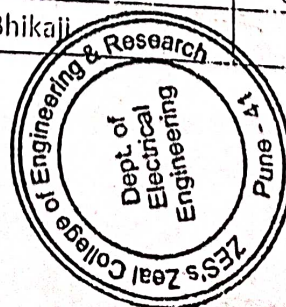
Hands on Training on "Design of Three Phase Induction Motor and Three Phase Transformer"
Department :Electrical Engineering

Class : T. E. Electrical - A DIV

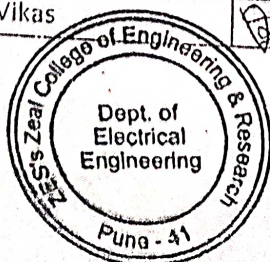
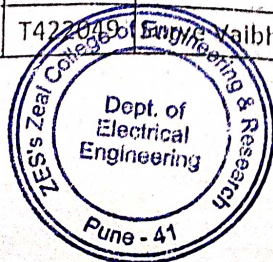
AY - 2019-2020

Date : 10/02/2020

S.N	Roll No.	Name of Student	Forenoon (Session 1)	Afternoon (Session 2)
1	T411001	Abhang Rohit Pundlik	Fahit	Fahit
2	T411002	Ambrale Jayant Dilip	Jayant	Jayant
3	T411003	Balgare Akash Maroti	Bikash	Bikash
4	T411004	Bardee Shivani Trimukh	Shivani	Shivani
5	T411006	Bhangre Atharva Aniruddha	Atharva	Atharva
6	T411007	Bhargude Digvijay Chandrakant	Digvijay	Digvijay
7	T411008	Bhor Prashant Kailas	Prashant	Prashant
8	T411009	Bhosale Supriya Ashok	Supriya	Supriya
9	T411010	Bodake Shubham Prakash	Shubham	Shubham
10	T411011	Chavan Akanksha Jayawant	Akanksha	Akanksha
11	T411012	Chogale Kimaya Vijay	Kimaya	Kimaya
12	T411013	Chormale Shubham Mohan	Shubham	Shubham
13	T411015	Deokar Chaitanya Santosh	Chaitanya	Chaitanya
14	T411016	Desale Siddhant Manohar	Siddhant	Siddhant
15	T411017	Dhobale Aniket Ashok	Aniket	Aniket
16	T411018	Done Ganpati Laxman	Ganpati	Ganpati
17	T411020	Dongare Suraj Pradeep	Suraj	Suraj
18	T411021	Gadge Hrushikesh Vilasrao	Hrushikesh	Hrushikesh
19	T411022	Ghuge Ganesh Madhukar	Ganesh	Ganesh
20	T411023	Ghutukade Mahadev Gorakh	Mahadev	Mahadev
21	T411024	Gore Ganesh Chandrakant	Ganesh	Ganesh
22	T411025	Gosavi Aparna Sureshgir	Aparna	Aparna
23	T411026	Hade Anushree Sunil	Anushree	Anushree
24	T411027	Jadhav Sanket Sanjay	Sanket	Sanket
25	T411029	Jagdhane Bhagyashree Tanaji	Bhagyashree	Bhagyashree
26	T411030	Kadulkar Ashish Shirish	Ashish	Ashish
27	T411031	Kamble Chitra Rajan	Chitra	Chitra
28	T411032	Kamble Pritam Bhikaji	Pritam	Pritam



29	T411033	Kamble Rugveda Sharad	<u>R.P.S.</u>	<u>R.S.</u>
30	T411034	Katke Vishal Mahadev	<u>Katke</u>	<u>Katke</u>
31	T411035	Khandekar Punam Subhash	<u>Punam</u>	<u>Punam</u>
32	T411036	Khot Trunali Sunil	<u>Khot</u>	<u>Khot</u>
33	T411037	Koregave Sudarshan Bhauso	<u>Koregave</u>	<u>Koregave</u>
34	T411038	Kotale Atul Ashok	<u>Atul</u>	<u>Atul</u>
35	T411039	Kshirsagar Pratik Prakash	<u>P.P.K.</u>	<u>P.P.K.</u>
36	T411042	Mohite Shweta Sanjay	<u>Shweta</u>	<u>Shweta</u>
37	T411043	More Vaishali Murlidhar	<u>More</u>	<u>More</u>
38	T411044	More Yogita Vijaykumar	<u>Yogita</u>	<u>Yogita</u>
39	T411046	Pardeshi Muskan Maheshkumar	<u>Muskan</u>	<u>Muskan</u>
40	T411047	Patil Harshal Sunil	<u>Patil</u>	<u>Patil</u>
41	T411048	Patil Sangram Anant	<u>Sangram</u>	<u>Sangram</u>
42	T411049	Patre Mahesh Arun	<u>Patre</u>	<u>Patre</u>
43	T411050	Pawar Abhijeet Sanjay	<u>Abhijeet</u>	<u>Abhijeet</u>
44	T411051	Pawar Aniket Mahadev	<u>Aniket</u>	<u>Aniket</u>
45	T411052	Pawar Mayuri Vikas	<u>Mayuri</u>	<u>Mayuri</u>
46	T411053	Pawar Shubhangi Babusha	<u>AB</u>	<u>AB</u>
47	T411054	Pokharkar Vaibhav Hanumant	<u>Vaibhav</u>	<u>Vaibhav</u>
48	T411056	Sawant Sumit Rajaram	<u>Sumit</u>	<u>Sumit</u>
49	T411057	Shenavi Deepali Bhikaji	<u>Deepali</u>	<u>Deepali</u>
50	T411058	Shinde Mayur Manohar	<u>Mayur</u>	<u>Mayur</u>
51	T411059	Shirke Aadesh Shankar	<u>Shirke</u>	<u>Shirke</u>
52	T411060	Sodanavar Dipalee Tatyaba	<u>Sodanavar</u>	<u>Sodanavar</u>
53	T411061	Sutar Vaishnavi Vivek	<u>Vaishnavi</u>	<u>Vaishnavi</u>
54	T411062	Taru Prajakta Bhanudas	<u>Prajakta</u>	<u>Prajakta</u>
55	T411063	Veer Omkar Vishnu	<u>AB</u>	<u>AB</u>
56	T411064	Wavhal Parag Ganesh	<u>Parag</u>	<u>Parag</u>
57	T411065	Zagade Nikita Ramdas	<u>Nikita</u>	<u>Nikita</u>
58	T411066	Chavan Pallavi Baliram	<u>AB</u>	<u>AB</u>
59	T411067	Mane Sourabh Shashikant	<u>Sourabh</u>	<u>Sourabh</u>
60	T411070	Kale Varad Ajay	<u>Kale</u>	<u>Kale</u>
61	T422028	Kute Shital Baliram	<u>Kute</u>	<u>Kute</u>
62	T422049	Engineering Vaibhav Vikas	<u>Vikas</u>	<u>Vikas</u>



Present - 58
Absent - 4

Mr. V. L. Tath.

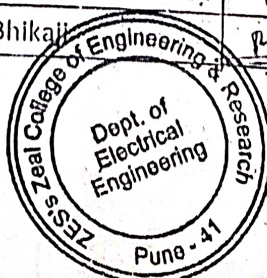
ZES's Zeal College of Engineering, Narhe, Pune

Hands on Training on "Design of Three Phase Induction Motor and Three Phase Transformer"
Department :Electrical Engineering

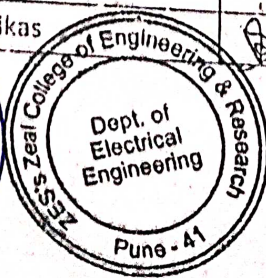
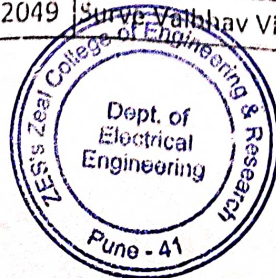
Class : T. E. Electrical - A DIV

AY - 2019-2020

			Date : 11/02/2020	
S.N	Roll No.	Name of Student	Forenoon (Session 1)	Afternoon (Session 2)
1	T411001	Abhang Rohit Pundlik	<i>Abhang</i>	<i>Abhang</i>
2	T411002	Ambrale Jayant Dilip	<i>Ambrale</i>	<i>Ambrale</i>
3	T411003	Balgare Akash Maroti	<i>Balgare</i>	<i>Balgare</i>
4	T411004	Bardee Shivani Trimukh	<i>Bardee</i>	<i>Bardee</i>
5	T411006	Bhangre Atharva Aniruddha	<i>Bhangre</i>	<i>Bhangre</i>
6	T411007	Bhargude Digvijay Chandrakant	<i>Bhargude</i>	<i>Bhargude</i>
7	T411008	Bhor Prashant Kailas	<i>Bhor</i>	<i>Bhor</i>
8	T411009	Bhosale Supriya Ashok	<i>Bhosale</i>	<i>Bhosale</i>
9	T411010	Bodake Shubham Prakash	AB	AB
10	T411011	Chavan Akanksha Jayawant	<i>Chavan</i>	<i>Chavan</i>
11	T411012	Chogale Kimaya Vijay	<i>Chogale</i>	<i>Chogale</i>
12	T411013	Chormale Shubham Mohan	<i>Chormale</i>	<i>Chormale</i>
13	T411015	Deokar Chaitanya Santosh	<i>Deokar</i>	<i>Deokar</i>
14	T411016	Desale Siddhant Manohar	<i>Desale</i>	<i>Desale</i>
15	T411017	Dhobale Aniket Ashok	<i>Dhobale</i>	<i>Dhobale</i>
16	T411018	Done Ganpati Laxman	<i>Done</i>	<i>Done</i>
17	T411020	Dongare Suraj Pradeep	<i>Dongare</i>	<i>Dongare</i>
18	T411021	Gadge Hrushikesh Vilasrao	<i>Gadge</i>	<i>Gadge</i>
19	T411022	Ghuge Ganesh Madhukar	<i>Ghuge</i>	<i>Ghuge</i>
20	T411023	Ghutukade Mahadev Gorakh	<i>Ghutukade</i>	<i>Ghutukade</i>
21	T411024	Gore Ganesh Chandrakant	AB	AB
22	T411025	Gosavi Aparna Sureshgir	<i>Gosavi</i>	<i>Gosavi</i>
23	T411026	Hade Anushree Sunil	<i>Hade</i>	<i>Hade</i>
24	T411027	Jadhav Sanket Sanjay	<i>Jadhav</i>	<i>Jadhav</i>
25	T411029	Jagdhane Bhagyashree Tanaji	<i>Jagdhane</i>	<i>Jagdhane</i>
26	T411030	Kadulkar Ashish Shirish	<i>Kadulkar</i>	<i>Kadulkar</i>
27	T411031	Kamble Chitra Rajan	<i>Kamble</i>	<i>Kamble</i>
28	T411032	Kamble Pritam Bhikaji	<i>Kamble</i>	<i>Kamble</i>



29	T411033	Kamble Rugveda Sharad	<u>Rugveda</u>	<u>Rugveda</u>
30	T411034	Katke Vishal Mahadev	<u>Vatke</u>	<u>Vatke</u>
31	T411035	Khandekar Punam Subhash	<u>Punam</u>	<u>Punam</u>
32	T411036	Khot Trunali Sunil	<u>Trunali</u>	<u>Trunali</u>
33	T411037	Koregave Sudarshan Bhauso	<u>Kindam</u>	<u>Koregave</u>
34	T411038	Kotale Atul Ashok	<u>Atul</u>	<u>Atul</u>
35	T411039	Kshirsagar Pratik Prakash	<u>P.P.K</u>	<u>P.P.K</u>
36	T411042	Mohite Shweta Sanjay	<u>Shweta</u>	<u>Shweta</u>
37	T411043	More Vaishali Murlidhar	<u>More</u>	<u>More</u>
38	T411044	More Yogita Vijaykumar	<u>Yogita</u>	<u>Yogita</u>
39	T411046	Pardeshi Muskan Maheshkumar	<u>MUSKAN</u>	<u>MUSKAN</u>
40	T411047	Patil Harshal Sunil	<u>Harshal</u>	<u>Harshal</u>
41	T411048	Patil Sangram Anant	<u>Sangram</u>	<u>Sangram</u>
42	T411049	Patre Mahesh Arun	<u>Mahesh</u>	<u>Mahesh</u>
43	T411050	Pawar Abhijeet Sanjay	<u>Abhijeet</u>	<u>Abhijeet</u>
44	T411051	Pawar Aniket Mahadev	<u>Aniket</u>	<u>Aniket</u>
45	T411052	Pawar Mayuri Vikas	<u>Mayuri</u>	<u>Mayuri</u>
46	T411053	Pawar Shubhangi Babusha	<u>Shubhangi</u>	<u>Shubhangi</u>
47	T411054	Pokharkar Vaibhav Hanumant	<u>Vaibhav</u>	<u>Vaibhav</u>
48	T411056	Sawant Sumit Rajaram	<u>Sumit</u>	<u>Sumit</u>
49	T411057	Shenavi Deepali Bhikaji	<u>Deepali</u>	<u>Deepali</u>
50	T411058	Shinde Mayur Manohar	<u>Mayur</u>	<u>Mayur</u>
51	T411059	Shirke Aadesh Shankar	<u>Aadesh</u>	<u>Aadesh</u>
52	T411060	Sodanavar Dipalee Tatyaba	<u>Dipalee</u>	<u>Dipalee</u>
53	T411061	Sutar Vaishnavi Vivek	<u>Vaishnavi</u>	<u>Vaishnavi</u>
54	T411062	Taru Prajakta Bhanudas	<u>Prajakta</u>	<u>Prajakta</u>
55	T411063	Veer Omkar Vishnu	<u>Omkar</u>	<u>Omkar</u>
56	T411064	Wavhal Parag Ganesh	<u>Parag</u>	<u>Parag</u>
57	T411065	Zagade Nikita Ramdas	<u>Nikita</u>	<u>Nikita</u>
58	T411066	Chavan Pallavi Baliram	<u>Pallavi</u>	<u>Pallavi</u>
59	T411067	Mane Sourabh Shashikant	<u>Sourabh</u>	<u>Sourabh</u>
60	T411070	Kale Varad Ajay	<u>Varad</u>	<u>Varad</u>
61	T422028	Kute Shital Baliram	<u>Shital</u>	<u>Shital</u>
62	T422049	Surve Vaibhav Vikas	<u>Vaibhav</u>	<u>Vaibhav</u>



Present : 58
absent : 4
Vatke

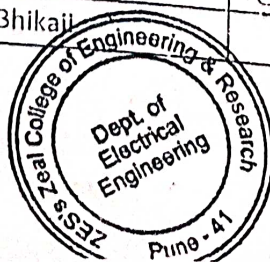
ZES's Zeal College of Engineering, Narhe, Pune

Hands on Training on "Design of Three Phase Induction Motor and Three Phase Transformer"
Department :Electrical Engineering

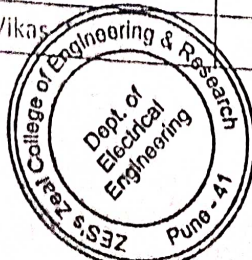
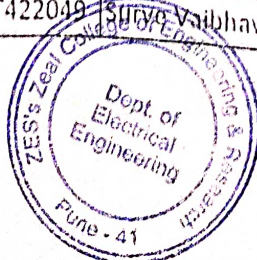
Class : T. E. Electrical - A DIV

AY - 2019-2020

S.N	Roll No.	Name of Student	Date : 12/02/2020	
			Forenoon (Session 1)	Afternoon (Session 2)
1	T411001	Abhang Rohit Pundlik	AB	RA
2	T411002	Ambrale Jayant Dilip	Ambrale	Ambrale
3	T411003	Balgare Akash Maroti	AKASH	AKASH
4	T411004	Bardee Shivani Trimukh	Shivani	Shivani
5	T411006	Bhangre Atharva Aniruddha	Atharva	Atharva
6	T411007	Bhargude Digvijay Chandrakant	AB	AB
7	T411008	Bhor Prashant Kailas	P.L	P.L
8	T411009	Bhosale Supriya Ashok	Supriya	Supriya
9	T411010	Bodake Shubham Prakash	Shubham	Shubham
10	T411011	Chavan Akanksha Jayawant	Akanksha	Akanksha
11	T411012	Chogale Kimaya Vijay	Kimaya	Kimaya
12	T411013	Chormale Shubham Mohan	Shubham	Shubham
13	T411015	Deokar Chaitanya Santosh	Chaitanya	Chaitanya
14	T411016	Desale Siddhant Manohar	Siddhant	Siddhant
15	T411017	Dhobale Aniket Ashok	Aniket	Aniket
16	T411018	Done Ganpati Laxman	Ganpati	Ganpati
17	T411020	Dongare Suraj Pradeep	Suraj	Suraj
18	T411021	Gadge Hrushikesh Vilasrao	Hrushikesh	Hrushikesh
19	T411022	Ghuge Ganesh Madhukar	Ganesh	Ganesh
20	T411023	Ghutukade Mahadev Gorakh	Mahadev	Mahadev
21	T411024	Gore Ganesh Chandrakant	Ganesh	Ganesh
22	T411025	Gosavi Aparna Sureshgir	Aparna	Aparna
23	T411026	Hade Anushree Sunil	Anushree	Anushree
24	T411027	Jadhav Sanket Sanjay	Sanket	Sanket
25	T411029	Jagdhane Bhagyashree Tanaji	Bhagyashree	Bhagyashree
26	T411030	Kadulkar Ashish Shirish	Ashish	Ashish
27	T411031	Kamble Chitra Rajan	Chitra	Chitra
28	T411032	Kamble Pritam Bhikaji	Pritam	Pritam



29	T411033	Kamble Rugveda Sharad	<u>Rugveda</u>	<u>Rugveda</u>
30	T411034	Katke Vishal Mahadev	<u>Katke</u>	<u>Katke</u>
31	T411035	Khandekar Punam Subhash	<u>Punam</u>	<u>Punam</u>
32	T411036	Khot Trunali Sunil	<u>Trunali</u>	<u>Trunali</u>
33	T411037	Koregave Sudarshan Bhauso	<u>Sudarshan</u>	<u>Sudarshan</u>
34	T411038	Kotale Atul Ashok	<u>Atul</u>	<u>Atul</u>
35	T411039	Kshirsagar Pratik Prakash	<u>P.P.K.</u>	<u>P.P.K.</u>
36	T411042	Mohite Shweta Sanjay	<u>Shweta</u>	<u>Shweta</u>
37	T411043	More Vaishali Murlidhar	<u>M.V.</u>	<u>M.V.</u>
38	T411044	More Yogita Vijaykumar	<u>Yogita</u>	<u>Yogita</u>
39	T411046	Pardeshi Muskan Maheshkumar	<u>Muskan</u>	<u>Muskan</u>
40	T411047	Patil Harshal Sunil	<u>Harshal</u>	<u>Harshal</u>
41	T411048	Patil Sangram Anant	<u>Sangram</u>	<u>Sangram</u>
42	T411049	Patre Mahesh Arun	<u>Mahesh</u>	<u>Mahesh</u>
43	T411050	Pawar Abhijeet Sanjay	<u>Abhijeet</u>	<u>Abhijeet</u>
44	T411051	Pawar Aniket Mahadev	<u>Aniket</u>	<u>Aniket</u>
45	T411052	Pawar Mayuri Vikas	<u>Mayuri</u>	<u>Mayuri</u>
46	T411053	Pawar Shubhangi Babusha	<u>Shubhangi</u>	<u>Shubhangi</u>
47	T411054	Pokharkar Vaibhav Hanumant	<u>AB</u>	<u>AB</u>
48	T411056	Sawant Sumit Rajaram	<u>Sumit</u>	<u>Sumit</u>
49	T411057	Shenavi Deepali Bhikaji	<u>Deepali</u>	<u>Deepali</u>
50	T411058	Shinde Mayur Manohar	<u>Mayur</u>	<u>Mayur</u>
51	T411059	Shirke Aadesh Shankar	<u>Aadesh</u>	<u>Aadesh</u>
52	T411060	Sodanavar Dipalee Tatyaba	<u>Dipalee</u>	<u>Dipalee</u>
53	T411061	Sutar Vaishnavi Vivek	<u>Vaishnavi</u>	<u>Vaishnavi</u>
54	T411062	Taru Prajakta Bhanudas	<u>Prajakta</u>	<u>Prajakta</u>
55	T411063	Veer Omkar Vishnu	<u>AB</u>	<u>AB</u>
56	T411064	Wavhal Parag Ganesh	<u>Parag</u>	<u>Parag</u>
57	T411065	Zagade Nikita Ramdas	<u>Nikita</u>	<u>Nikita</u>
58	T411066	Chavan Pallavi Ballram	<u>Pallavi</u>	<u>Pallavi</u>
59	T411067	Mane Sourabh Shashikant	<u>Sourabh</u>	<u>Sourabh</u>
60	T411070	Kale Varad Ajay	<u>Varad</u>	<u>Varad</u>
61	T422028	Kute Shital Ballram	<u>Shital</u>	<u>Shital</u>
62	T422049	Suryo Vaibhav Vikas	<u>Vaibhav</u>	<u>Vaibhav</u>



Present - 59
absent - 3

U.L.

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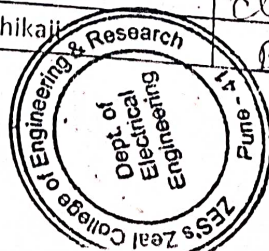
Hands on Training on "Design of Three Phase Induction Motor and Three Phase Transformer"

Department :Electrical Engineering

Class : T. E. Electrical - A DIV

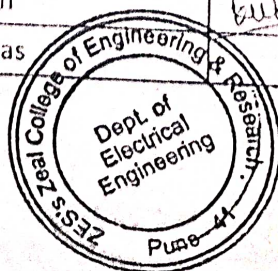
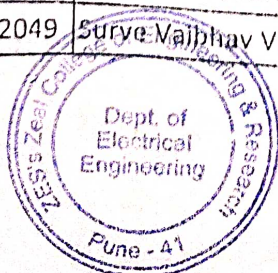
AY - 2019-2020

S.N	Roll No.	Name of Student	Date : 14/02/2020	
			Forenoon (Session 1)	Afternoon (Session 2)
1	T411001	Abhang Rohit Pundlik	Abhang	Abhang
2	T411002	Ambrale Jayant Dilip	Ambrale	Ambrale
3	T411003	Balgare Akash Maroti	Balgare	Balgare
4	T411004	Bardee Shivani Trimukh	Bardee	Bardee
5	T411006	Bhangre Atharva Aniruddha	Bhangre	Bhangre
6	T411007	Bhargude Digvijay Chandrakant	Bhargude	Bhargude
7	T411008	Bhor Prashant Kailas	Bhor	Bhor
8	T411009	Bhosale Supriya Ashok	Bhosale	Bhosale
9	T411010	Bodake Shubham Prakash	Bodake	Bodake
10	T411011	Chavan Akanksha Jayawant	Chavan	Chavan
11	T411012	Chogale Kimaya Vijay	Chogale	Chogale
12	T411013	Chormale Shubham Mohan	Chormale	Chormale
13	T411015	Deekar Chaitanya Santosh	Deekar	Deekar
14	T411016	Desale Siddhant Manohar	Desale	Desale
15	T411017	Dhobale Aniket Ashok	Dhobale	Dhobale
16	T411018	Done Ganpati Laxman	Done	Done
17	T411020	Dongare Suraj Pradeep	Dongare	Dongare
18	T411021	Gadge Hrushikesh Vilasrao	Gadge	Gadge
19	T411022	Ghuge Ganesh Madhukar	Ghuge	Ghuge
20	T411023	Ghutukade Mahadev Gorakh	Ghutukade	Ghutukade
21	T411024	Gore Ganesh Chandrakant	Gore	Gore
22	T411025	Gosavi Aparna Sureshgir	Gosavi	Gosavi
23	T411026	Hade Anushree Sunil	Hade	Hade
24	T411027	Jadhav Sanket Sanjay	Jadhav	Jadhav
25	T411029	Jagdhane Bhagyashree Tanaji	Jagdhane	Jagdhane
26	T411030	Kadulkar Ashish Shirish	Kadulkar	Kadulkar
27	T411031	Kamble Chitra Rajan	Kamble	Kamble
28	T411032	Kamble Pritam Bhikaji	Kamble	Kamble



former"

29	T411033	Kamble Rugveda Sharad	<u>Rugveda</u>	<u>Rugveda</u>
30	T411034	Katke Vishal Mahadev	AB	AB
31	T411035	Khandekar Punam Subhash	<u>Punam</u>	<u>Punam</u>
32	T411036	Khot Trunali Sunil	<u>Trunali</u>	<u>Trunali</u>
33	T411037	Koregave Sudarshan Bhauso	<u>Sudarshan</u>	<u>Sudarshan</u>
34	T411038	Kotale Atul Ashok	<u>Atul</u>	<u>Atul</u>
35	T411039	Kshirsagar Pratik Prakash	<u>P. P. K.</u>	<u>P. P. K.</u>
36	T411042	Mohite Shweta Sanjay	<u>Shweta</u>	<u>Shweta</u>
37	T411043	More Vaishali Murlidhar	AB	AB
38	T411044	More Yogita Vijaykumar	<u>Yogita</u>	<u>Yogita</u>
39	T411046	Pardeshi Muskan Maheshkumar	<u>Muskan</u>	<u>Muskan</u>
40	T411047	Patil Harsha Sunil	<u>Harsha</u>	<u>Harsha</u>
41	T411048	Patil Sangram Anant	<u>Sangram</u>	<u>Sangram</u>
42	T411049	Patre Mahesh Arun	<u>Mahesh</u>	<u>Mahesh</u>
43	T411050	Pawar Abhijeet Sanjay	<u>Abhijeet</u>	<u>Abhijeet</u>
44	T411051	Pawar Aniket Mahadev	<u>Aniket</u>	<u>Aniket</u>
45	T411052	Pawar Mayuri Vikas	<u>Mayuri</u>	<u>Mayuri</u>
46	T411053	Pawar Shubhangi Babusha	AB	AB
47	T411054	Pokharkar Vaibhav Hanumant	<u>Vaibhav</u>	<u>Vaibhav</u>
48	T411056	Sawant Sumit Rajaram	<u>Sumit</u>	<u>Sumit</u>
49	T411057	Shenavi Deepali Bhikaji	<u>Deepali</u>	<u>Deepali</u>
50	T411058	Shinde Mayur Manohar	<u>Mayur</u>	<u>Mayur</u>
51	T411059	Shirke Aadesh Shankar	AB	AB
52	T411060	Sodanavar Dipalee Tatyaba	<u>Dipalee</u>	<u>Dipalee</u>
53	T411061	Sutar Vaishnavi Vivek	<u>Vaishnavi</u>	<u>Vaishnavi</u>
54	T411062	Taru Prajakta Bhanudas	<u>Prajakta</u>	<u>Prajakta</u>
55	T411063	Veer Omkar Vishnu	AB	AB
56	T411064	Wavhal Parag Ganesh	<u>Parag</u>	<u>Parag</u>
57	T411065	Zagade Nikita Ramdas	<u>Nikita</u>	<u>Nikita</u>
58	T411066	Chavan Pallavi Baliram	<u>Pallavi</u>	<u>Pallavi</u>
59	T411067	Mane Sourabh Shashikant	<u>Sourabh</u>	<u>Sourabh</u>
60	T411070	Kale Varad Ajay	AB	AB
61	T422028	Kute Shital Baliram	<u>Shital</u>	<u>Shital</u>
62	T422049	Surve Maybhav Vikas	AB	AB



Present - 54
Absent - 8

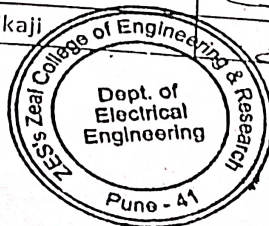
ZES's Zeal College of Engineering, Narhe, Pune

Hands on Training on "Design of Three Phase Induction Motor and Three Phase Transformer"
Department :Electrical Engineering

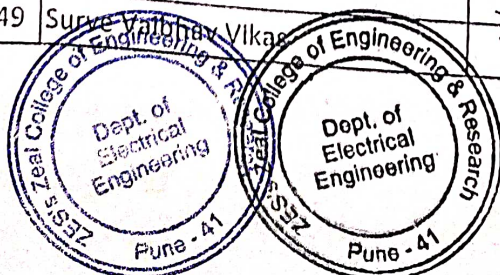
Class : T. E. Electrical - A DIV

AY - 2019-2020

S.N	Roll No.	Name of Student	Date : 13/02/2020	
			Forenoon (Session 1)	Afternoon (Session 2)
1	T411001	Abhang Rohit Pundlik	Rohit	Rohit
2	T411002	Ambrale Jayant Dilip	Jayant	Jayant
3	T411003	Balgare Akash Maroti	Akash	Akash
4	T411004	Bardee Shivani Trimukh	Shivani	Shivani
5	T411006	Bhangre Atharva Aniruddha	Atharva	Atharva
6	T411007	Bhargude Digvijay Chandrakant	DC Bhargude	DC Bhargude
7	T411008	Bhor Prashant Kailas	Prashant	Prashant
8	T411009	Bhosale Supriya Ashok	Supriya	Supriya
9	T411010	Bodake Shubham Prakash	Shubham	Shubham
10	T411011	Chavan Akanksha Jayawant	Akanksha	Akanksha
11	T411012	Chogale Kimaya Vijay	Kimaya	Kimaya
12	T411013	Chormale Shubham Mohan	Shubham	Shubham
13	T411015	Deukar Chaitanya Santosh	Chaitanya	Chaitanya
14	T411016	Desale Siddhant Manohar	Siddhant	Siddhant
15	T411017	Dhobale Aniket Ashok	Aniket	Aniket
16	T411018	Done Ganpati Laxman	Ganpati	Ganpati
17	T411020	Dongare Suraj Pradeep	Suraj	Suraj
18	T411021	Gadge Hrushikesh Vilasrao	HR	HR
19	T411022	Ghuge Ganesh Madhukar	Ganesh	Ganesh
20	T411023	Ghutukade Mahadev Gorakh	Mahadev	Mahadev
21	T411024	Gore Ganesh Chandrakant	Ganesh	Ganesh
22	T411025	Gosavi Aparna Sureshgir	Aparna	Aparna
23	T411026	Hade Anushree Sunil	Anushree	Anushree
24	T411027	Jadhav Sanket Sanjay	Sanket	Sanket
25	T411029	Jagdhane Bhagyashree Tanaji	Bhagyashree	Bhagyashree
26	T411030	Kadulkar Ashish Shirish	Ashish	Ashish
27	T411031	Kamble Chitra Rajan	Chitra	Chitra
28	T411032	Kamble Pritam Bhikaji	Pritam	Pritam



29	T411033	Kamble Rugveda Sharad	(B)Kamble	(B)Kamble
30	T411034	Katke Vishal Mahadev	AB	AB
31	T411035	Khandekar Punam Subhash	Punam	Punam
32	T411036	Khot Trunali Sunil	Ekhot	Ekhot
33	T411037	Koregave Sudarshan Bhauso	Sudarshan	Sudarshan
34	T411038	Kotale Atul Ashok	Atul	Atul
35	T411039	Kshirsagar Pratik Prakash	P.P.K.	P.P.K.
36	T411042	Mohite Shweta Sanjay	Shweta	Shweta
37	T411043	More Vaishali Murlidhar	AB	AB
38	T411044	More Yogita Vijaykumar	Ymore	Ymore
39	T411046	Pardeshi Muskan Maheshkumar	Muskan	Muskan
40	T411047	Patil Harshal Sunil	Harshal	Harshal
41	T411048	Patil Sangram Anant	Sangram	Sangram
42	T411049	Patre Mahesh Arun	Mahesh	Mahesh
43	T411050	Pawar Abhijeet Sanjay	Abhijeet	Abhijeet
44	T411051	Pawar Aniket Mahadev	Aniket	Aniket
45	T411052	Pawar Mayuri Vikas	Mayuri	Mayuri
46	T411053	Pawar Shubhangi Babusha	Shubhangi	Shubhangi
47	T411054	Pokharkar Vaibhav Hanumant	AB	AB
48	T411056	Sawant Sumit Rajaram	Sumit	Sumit
49	T411057	Shenavi Deepali Bhikaji	Deepali	Deepali
50	T411058	Shinde Mayur Manohar	Mayur	Mayur
51	T411059	Shirke Aadesh Shankar	Aadesh	Aadesh
52	T411060	Sodanavar Dipalee Tatyaba	Dipalee	Dipalee
53	T411061	Sutar Vaishnavi Vivek	Vaishnavi	Vaishnavi
54	T411062	Taru Prajakta Bhanudas	Prajakta	Prajakta
55	T411063	Veer Omkar Vishnu	Omkar	Omkar
56	T411064	Wavhal Parag Ganesh	AB	AB
57	T411065	Zagade Nikita Ramdas	Nikita	Nikita
58	T411066	Chavan Pallavi Baliram	Pallavi	Pallavi
59	T411067	Mane Sourabh Shashikant	Sourabh	Sourabh
60	T411070	Kale Varad Ajay	Varad	Varad
61	T422028	Kute Shital Baliram	Shital	Shital
62	T422049	Surve Vaibhav Vikas	Surve	Surve



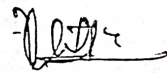
Present - 59
absent - 3

Utk

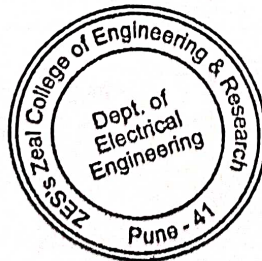
Assessment Procedure

The certificate is given to student only if they fulfill the criteria

- 1) Attendance is $\geq 75\%$
- 2) If they pass the test at the end of hands on session.



Tathe Vishal L.



Q.no 1. Thickness of core lamination of transformer is

A : 18cm

B : 25cm

C : 20cm

D : 15cm

Q.no 2. Which type of slots are generally used in induction motors ?

A : Open type

B : Semi-closed type

C : Closed type

D : None of the above.

Q.no 3. What is the formula for the magnetizing current per phase?

A : magnetizing current per phase = $(0.427 * \text{no. of poles} * \text{total magnetizing mmf per pole} * \text{stator winding factor} * \text{no of turns of stator slots})$

B : magnetizing current per phase = $(0.427 / \text{no. of poles} * \text{total magnetizing mmf per pole} * \text{stator winding factor} * \text{no of turns of stator slots})$

C : magnetizing current per phase = $(0.427 * \text{no. of poles} / \text{total magnetizing mmf per pole} * \text{stator winding factor} * \text{no of turns of stator slots})$

D : magnetizing current per phase = $(0.427 * \text{no. of poles} * \text{total magnetizing mmf per pole} * \text{stator winding factor} * \text{no of turns of stator slots})$

Q.no 4. What is the relation between rotor mmf and stator mmf?

A : rotor mmf = $0.85 * \text{stator mmf}$

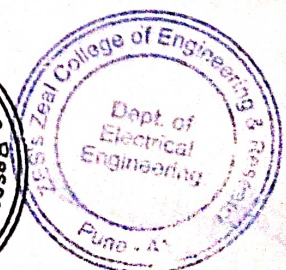
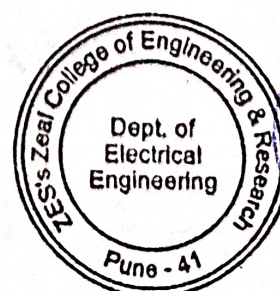
B : rotor mmf = $0.80 * \text{stator mmf}$

C : rotor mmf = $0.75 * \text{stator mmf}$

D : rotor mmf = $0.70 * \text{stator mmf}$

Q.no 5. Carter's coefficient is applicable for estimating

A : requirement of air-gap mmf



B : flux distribution in air-gap

C : length of air gap

D : no load loss

Q.no 6. The heat generated in transformer is dissipated to surroundings mainly by.....

A : Conduction

B : convection

C : Radiation

D : conduction and convection

Q.no 7. Which winding will have winding factor equal to one

A : Lap

B : Wave

C : Full pitched concentric

D : Full pitched distributed

Q.no 8. The range of specific magnetic loading in weber per meter square is

A : 0.35 to 0.6

B : 0.3 to 0.7

C : 0.3 to 0.65

D : 0.4 to 0.8

Q.no 9. For avoiding cogging in induction motor the difference between the number of stator and rotor slots should not be

A : P

B : 2P

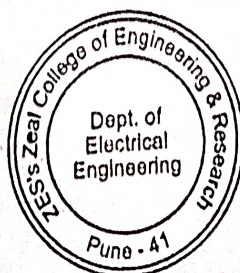
C : 3P

D : 4P

Q.no 10. What is the range of current density in rotor bars in Ampere per meter square?

A : 4 to 9

B : 4 to 6



Q.no 11. What type of winding is used for the small rating induction motors?

- A : mush windings
- B : cross windings
- C : interconnected windings
- D : rounded windings

Q.no 12. Transformer core is laminated to reduce

- A : Hysteresis loss
- B : Copper loss
- ☒ C : Eddy current loss
- D : Stray loss

Q.no 13. Aluminum when used as conductor in large size of transformer it.....

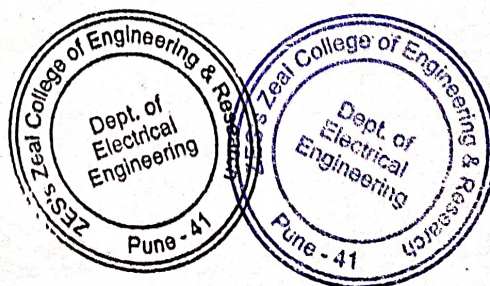
- A : Gives reduced overall cost
- B : Gives increased size and cost
- C : Does not affect the size and cost
- D : None of these

Q.no 14. The output of the transformer for the same transformation ratio can be increased by

- ☒ A : Increasing rate of oil flow
- B : Using tapings
- C : Output current
- D : All of the above

Q.no 15. The slip rings of wound rotor machines are made from

- A : electrolytic copper
- B : brass
- C : cast iron
- D : mild steel.



Q.no 16. Thermal Resistivity of Air in Ohm meter

A : 10

B : 15

C : 20

D : 25

Q.no 17. Stator frame of three phase induction motor can be made of

A : Aluminum alloy

B : Laminated silicon steel

C : Dynamo grade steel

D : None of the above

Q.no 18. For calculating magnetizing current in transformer, which MMF is considered

A : MMF for limb

B : MMF for yoke

C : MMF for Limb & Yoke both

D : None of above

Q.no 19. What is the rotor windings for wound rotor motors?

A : single phase windings

B : double phase windings

C : three phase windings

D : concentrated phase windings

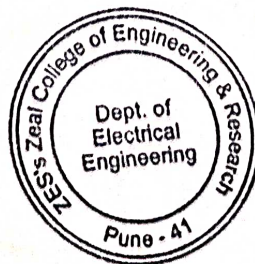
Q.no 20. In case of air natural cooling, the cooling surface increases as the
.....of the linear dimensions

A : square

B : inverse

C : cube

D : inverse cube

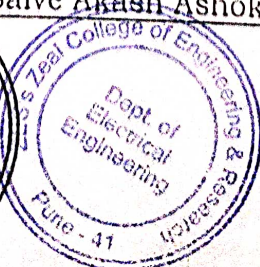
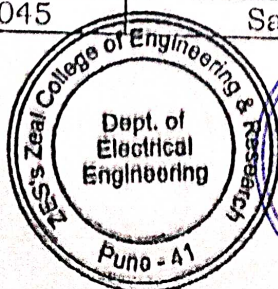


Result

Sr. No	Roll No
1	
2	

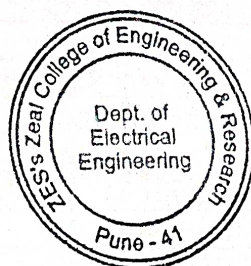
Result of course- Design of 3-ph induction motor

Sr. No	Roll no.	Name of student	Marks obtained
1	T422001	Bansode Yogesh Shivshankar	12
2	T422002	Bhasme Harshada Rajendra	20
3	T422003	Bhosale Pravin Tanaji	17
4	T422004	Choudante Ashit Bapurao	14
5	T422005	Danke Aakanksha Laxmikant	11
6	T422006	Daware Akash Sunil	14
7	T422007	Dhane Kalyani Dilip	14
8	T422008	Gaikwad Gajanan Satish	10
9	T422010	Gavali Mukesh Dilip	19
10	T422011	Gunda Vinit Vithal	10
11	T422012	Hadge Bhakti Santosh	19
12	T422013	Hankare Pranaya Prakash	19
13	T422014	Honmane Aishwarya Ashokrao	15
14	T422015	Hosale Nikhil Nagendra	20
15	T422016	Jadhav Prajakta Anil	12
16	T422017	Jadhav Suraj Madhukar	15
17	T422019	Junare Prathamesh Ashok	13
18	T422020	Kadam Vaibhavi Vijay	16
19	T422021	Kagadi Arbaz Raju	13
20	T422022	Kale Pranita Ramesh	16
21	T422023	Kanase Vivek Lahu	11
22	T422025	Kendre Manisha Vyankat	16
23	T422026	Kulkarni Aditya Sanjay	10
24	T422027	Kulkarni Shrilekha Shriram	16
25	T422029	Magar Saurabh Dattatray	19
26	T422030	Mali Rushikesh Rajaram	10
27	T422031	Matte Chandragupta Ashok	15
28	T422032	More Atharv Rajendra	10
29	T422034	Padalkar Girish Mahadeo	16
30	T422035	Pandey Pratik Ramsharan	11
31	T422036	Parab Pranav Upkar	12
32	T422037	Patil Abhishek Siddharaj	13
33	T422038	Patil Pratik Bhagwat	15
34	T422039	Patil Rupashree Shantikumar	20
35	T422040	Patil Rutika Sunil	18
36	T422041	Patil Shweta Lalaso	11
37	T422042	Patil Vaibhavi Vitthal	9
38	T422043	Patil Vishranti Shivajirao	12
39	T422044	Pawar Rupali Vijaysing	14
40	T422045	Salve Akash Ashok	15



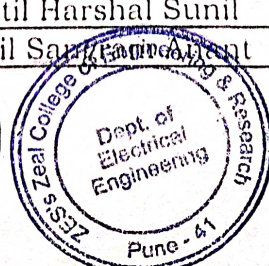
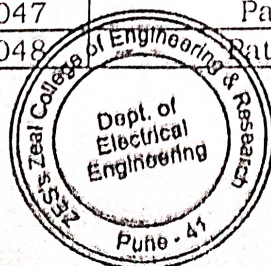
41	T422046	Salve Harshad Chandrakant	15
42	T422047	Sathe Akash Sonba	14
43	T422048	Shaikh Sana Asif	16
44	T422050	Surwase Ritika Ganesh	20
45	T422051	Sutar Rohan Kundalik	11
46	T422052	Tilekar Vaishnavi Anil	9
47	T422054	Wasate Komal Gautam	10
48	T422055	Yalgonde Shubham Tanaji	18
49	T422056	Zambre Swapnali Shivaji	14
50	T411045	Papanwar Shweta Gajanan	10

[Signature]
Course coordinator



Result of course- Design of 3-ph induction motor

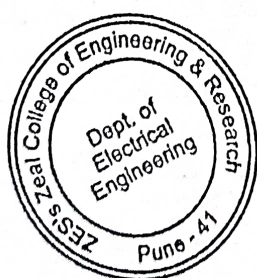
Sr. No	Roll no.	Name of student	Marks obtained
1	T411001	Abhang Rohit Pundlik	10
2	T411002	Ambrale Javant Dilip	13
3	T411003	Balgare Akash Maroti	15
4	T411004	Bardec Shivani Trimukh	15
5	T411006	Bhangre Atharva Aniruddha	12
6	T411007	Bhargude Digvijay C	10
7	T411008	Bhor Prashant Kailas	9
8	T411009	Bhosale Supriya Ashok	16
9	T411011	Chavan Akanksha J	19
10	T411012	Chogale Kimaya Vijay	9
11	T411013	Chormale Shubham M	15
12	T411015	Deokar Chaitanya Santosh	19
13	T411016	Desale Siddhant Manohar	19
14	T411017	Dhobale Aniket Ashok	15
15	T411018	Done Ganpati Laxman	10
16	T411020	Dongare Suraj Pradeep	14
17	T411021	Gadgc Hrushikesh V	17
18	T411022	Ghuge Ganesh Madhukar	9
19	T411023	Ghutukade Mahadev G	19
20	T411024	Gore Ganesh Chandrakant	17
21	T411025	Gosavi Aparna Sureshgir	9
22	T411026	Hade Anushree Sunil	20
23	T411027	Jadhav Sanket Sanjay	17
24	T411029	Jagdhane Bhagvashree T	11
25	T411030	Kadulkar Ashish Shirish	13
26	T411031	Kamble Chitra Rajan	16
27	T411032	Kamble Pritam Bhikaji	18
28	T411033	Kamble Rugveda Sharad	14
29	T411034	Katke Vishal Mahadev	19
30	T411035	Khandekar Punam Subhash	17
31	T411036	Khot Trunali Sunil	12
32	T411037	Koregave Sudarshan B	16
33	T411038	Kotale Atul Ashok	17
34	T411039	Kshirsagar Pratik P	19
35	T411042	Mohite Shweta Sanjay	16
36	T411043	More Vaishali Murlidhar	16
37	T411044	More Yogita Vijaykumar	15
38	T411046	Pardeshi Muskan M	16
39	T411047	Patil Harshal Sunil	19
40	T411048	Patil Sanjay Anandkant	19



41	T411049	Patre Mahesh Arun	15
42	T411050	Pawar Abhijeet Sanjay	13
43	T411051	Pawar Aniket Mahadev	20
44	T411052	Pawar Mayuri Vikas	11
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55	T411066	Chavan Pallavi	9
56	T411067	Mane Sourabh	16
57	T411068	Deshmukh Ashutosh Ashok	20
58	T411069	Chaudhari Gunil Manohar	11
59	T411070	Kale Varad	10
60	T422028	Kute Shital Baliram	9
61	T422033	Nalawade Ragini Balaso	19
62	T422049	Surve Vaibhav Vikas	19

[Signature]

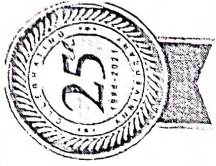
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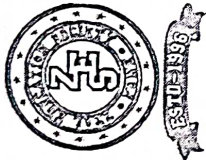
During 10th To 14th february 2020.



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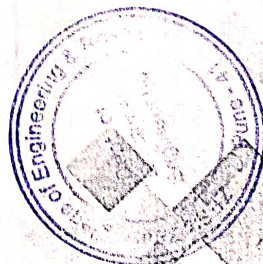
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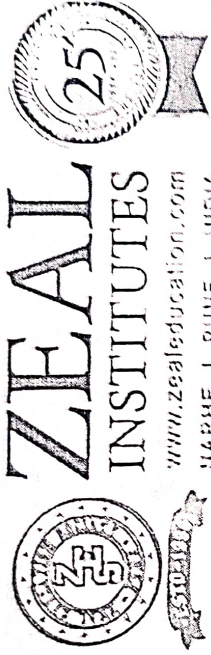
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