



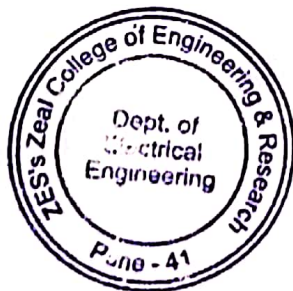
**ZEAL EDUCATION SOCIETY'S  
ZEAL COLLEGE OF ENGINEERING AND RESEARCH  
NARHE | PUNE -41 | INDIA  
DEPARTMENT OF ELECTRICAL ENGINEERING**



## INDEX

### 6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the 2017-18

Year	Dates (from-to) (DD-MM-YYYY)	Title of the FDP / professional development / administrative training program	No. of participants	Link to relevant document / brochure / report hosted on official institutional website
2017-2018	05 to 09/06/2018	FDP on "Advances in Power system"	20	Nil
2017-2018	05to 09/12/2017	FDP on "Network analysis and synthesis"	20	Nil
2017-2018	10-Jun-17	Train The Trainer	1	Nil
2017-2018	15 Dec 2017 to 16th Dec 2017	Recent Development in solar & smart energy system	1	Nil



*Boyer*

Head

Department of Electrical Engineering



Zeal Education Society's  
 Zeal College of Engineering and Research, Narhe, Pune - 41  
 Department of Electrical Engineering

=====  
*Certificate*  
 =====

A Faculty Development Program

ON

*Advances in Power Systems*

This is to certify that Dr./Mr./Mrs./Miss. Sudhir G. Mane has

participated in faculty development program on "Advances in Power Systems" organized by Department of Electrical Engineering, ZES's Zeal College of Engineering & Research, Narhe, Pune during 5<sup>th</sup> to 9<sup>th</sup> June 2017.

  
 Dr. M.G. Unde

Convener  
 HOD (EE), ZCOER





Dr. A.M. Kate  
 Principal  
 ZES ZCOER



Dr. S.A. Deokar  
 Campus Director  
 Zeal Education Society



**ZEAL EDUCATION SOCIETY**  
**C E L E B R A T I N G**  
 20 YEARS OF EDUCATIONAL EXCELLENCE

www.zealeducation.com



# ZEAL COLLEGE OF ENGINEERING AND RESEARCH

Sr.No. 39, Narhe, Pune-411041, India. Phone No. 020-67206103/131 Website : www.zcoer.in E-mail : contact@zealeducation.com

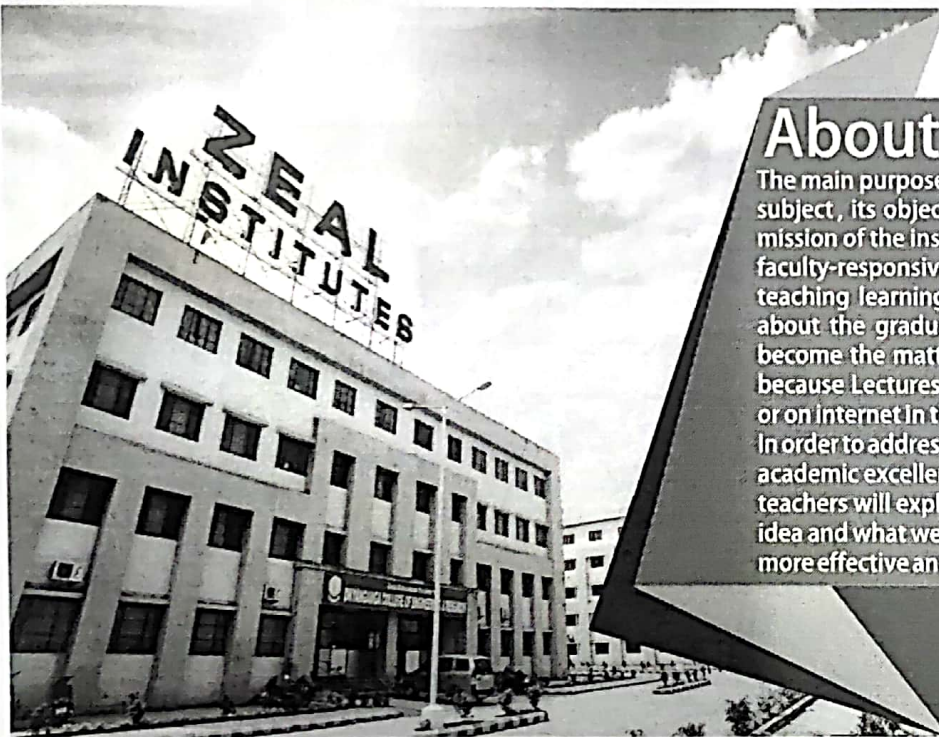
# SHORT TERM TRAINING PROGRAM

in association with



## STTP 2017

www.zealeducation.com/workshops



### About STTP

The main purpose of the STTP is to train the participants in the concept subject, its objectives and expected outcomes. Considering the vision mission of the Institute and requirements of student, we have designed faculty-responsive STTP which will lead to positive transformation in teaching learning process. In educational institutes, everyone is aware about the gradual increase in classroom absenteeism of students has become the matter of concern. Students are reluctant to attend class because Lectures content delivered by faculties are available in textbooks or on internet in the form of videos/PPTs/MOOC, being one of the reasons. In order to address this issue, this STTP brings you an opportunity to pursue academic excellence during interactive sessions where eminent hard-core teachers will explain various topics of SPPU syllabus by giving us a better idea and what we should focus on syllabus wise so as to make your lectures more effective and interactive.

### FACULTIES INVITED FROM



**COMPUTER  
 ENGINEERING**



**CIVIL  
 ENGINEERING**



**ELECTRICAL  
 ENGINEERING**



**E&TC  
 ENGINEERING**



**INFORMATION  
 TECHNOLOGY**



**MECHANICAL  
 ENGINEERING**

# ABOUT ZEAL EDUCATION SOCIETY



Zeal Education Society (ZES) is established in year 1996 under the able guidance of Hon. Shri S.M. Katkar to noble cause of education. During last few years, ZES has proved for being a well known organization in the field of education. Within the time span of 20 years, ZES has established Dnyanganga English Medium school, Dnyanganga Junior college, Dnyanganga college of education, Silver Crest School at Hingane Campus and Zeal College of Engineering and Research, Zeal Polytechnic, The Zeal Institute of Business Administration, Computer Application & Research, Zeal Institute of Management & Computer Application at Narhe Campus.

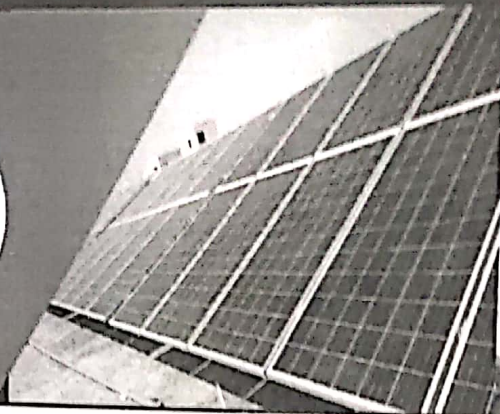
## ABOUT ZEAL COLLEGE OF ENGINEERING



Zeal Education Society's, Zeal College of Engineering and Research (Formally Known as Dnyanganga College of Engineering and Research) is established in June 2007 which symbolized the beginning of new era in technical education. The Institute has been approved by AICTE, DTE and affiliated to Savitribai Phule Pune University, Pune. The Institute offers undergraduate and postgraduate Engineering degree programmes in Information Technology, Computer, Electrical, Mechanical, Civil and Electronics & Telecommunication. The institute is also granted as PhD research center in Electronics & Telecommunication and Mechanical Engineering under Savitribai Phule Pune University, since 2013. Well qualified and experienced faculties with good research background are one of the key features of the institute. With state of art research, infrastructural, sports, cultural facilities the campus provides excellent academic ambience for the students.

Dedicated Training and Placement Cell of the institute ensures a bright future to its students.

# ELECTRICAL ENGINEERING



## "NETWORK ANALYSIS AND SYNTHESIS"

December 05<sup>th</sup> to 09<sup>th</sup>, 2017

### About Department:

Department of Electrical Engineering was established in year 2008. The Department of Electrical Engineering offers a vibrant environment for under graduate and post graduate in Power System with intake 24. The Department has excellent research infrastructure and laboratories having state of art equipments and software's like MATLAB, Simulink. The Department offers consultancy in the field of Energy Conservation and Green Audits, Substation Earthing. The goal of Department of Electrical Engineering is to provide students a balance of intellectuals and practical experience that enables them to serve a variety of societal & industrial needs.

### About STTP:

Network Analysis and Synthesis is one of the important course in electrical engineering. It has many applications in electrical engineering field like Load flow analysis, Transmission line performance, Electrical machines and so on. This STTP will enhance analytical qualities of participant to solve vast and complex network.

#### Contents of STTP

Short Term Training Program is designed to enhance the basic concepts of electrical network and it will be clearly understood by the participants from the following topics.

- Basics of Network
- Network Theorems (with and without controlled sources)
- Analysis of Transient response in circuits by Classical method and Laplace transforms approach
- Two Port Network
- Network functions
- Hands on training on MATLAB software for two days

#### Objectives

To develop strong foundation for Electrical Networks among the participants and they will be able to apply the fundamental concepts in Electrical networks by interacting with leading academicians, scholars and industry persons of respective field.

- To bring together academicians, experts, researchers and industry persons from respective field common purpose
- To study the fundamental concepts related to Network Analysis and Synthesis
- To develop analytical qualities in Electrical circuits by application of various theorems
- To understand the behaviour of circuits by analyzing the transient response using classical methods and Laplace Transform approach
- To apply knowledge of Network theory for analysis of Power system, Control system, EHV AC Transmission, 2-port networks and design of other circuits like filters etc.
- To discuss the various methods of network analysis by hands on training on Matlab

## Resource Persons



Dr. Y. V. Hote  
(IIT, Roorkee)



Dr. V.S. Bandal  
(Govt. Polytechnic, Karad)



Dr. Archana Thosar  
(GCE, Aurangabad)



Dr. D.B. Talange  
(COEP, Pune)



Prof. V.B. Waghman  
(GCE, Karad)



Dr. H. R. Jariwala  
(SVNIT, Surat)



Dr. Rahee Walambe  
(SITSIU, Pune)



Mr. Hrishikesh Mehta  
(Kuber Technologies, Pune)

## Course Coordinators

Prof. M. R. Hans  
(Mob No. 9689002766)  
manoj.hans@zealeducation.com

Prof. R. M. Zende  
(Mob No. 9763030081)  
ranjit.zende@zealeducation.com

Prof. C. V. Deshpande  
(Mob No. 8956687623)  
chaitanya.deshpande@zealeducation.com

AICTE - ISTE Approved STTP

Last Date of Registration 02<sup>nd</sup> December, 2017

Registration Fees : 1500/-

# SINHGAD INSTITUTE OF TECHNOLOGY

(Affiliated to Savitribai Phule Pune University & Approved by AICTE)

Gat No. 309/310, Kusgaon (BK.), Off Mumbai - Pune Express way, Lonavala, Dist Pune - 410 401.

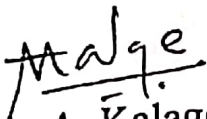
PROF. M. N. NAVALE  
M.E., M.T.E., MIE, MBA  
Founder President


DR. (MRS.) SUNANDA M. NAVALE  
B.A., M.P.M., Ph.D  
Founder Secretary

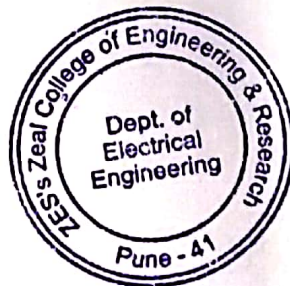
DR. M. S. GAIKWAD  
M.E., Ph.D (Electronics Engg.)  
Principal

## CERTIFICATE OF PARTICIPATION

This is to certify that Mr. Satya Prakash of SKN Sinhgad Institute of Technology and Science, Lonavala, has participated in one week "Train the Trainer" programme for the subject Power Electronics from 5<sup>th</sup> June to 10<sup>th</sup> June 2017, organized at Electrical Engineering Department, Sinhgad Institute of Technology, Lonavala.

  
Dr. A. A. Kalage  
Co-ordinator

  
Dr. M. S. Gaikwad  
Principal





Marathwada University  
 COLLEGE OF ENGINEERING  
 Karvenagar, Pune - 410 005



Approved by All India Council for Technical Education

# Certificate of Participation

This Certificate is awarded to

Mr./Mrs./Ms. Sudhir Mane  
 of ZES, ZCOER, Pune.

for active participation in the *Two Days State Level Workshop on "Recent Developments in Solar & Smart Energy Systems"* organized by Electrical Engineering Department, MMCOE, Pune -52 under the aegis of QIP, Savitribai Phule Pune University (SPPU) held on December 15-16, 2017.

*Choube*

PROF. P. R. CHOUBE  
 PROF A. M. SURYAWANSHI

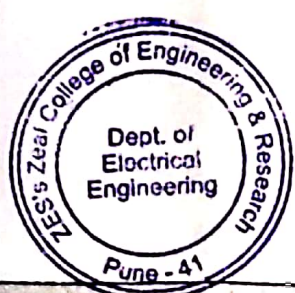
COORDINATOR  
 MMCOE, PUNE - 52.



*Tarambale*

PROF. M. R. TARAMBALÉ

H.O.D., ELECTRICAL  
 MMCOE, PUNE - 52.



*Deshpande*

DR. S. M. DESHPANDE

PRINCIPAL  
 MMCOE, PUNE - 52.



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

## Report on “Network Analysis and Synthesis”

**Department:** Electrical Engg.

**Academic Year:** 2017-18

**Date:** 12/12/2017

To,  
The Principal,  
ZCOER, Pune

**Through:** HOD, Department of Electrical Engineering

**Subject:** Report on “Network Analysis and Synthesis”.

**Respected Sir,**

With above reference, we have successfully organized Global Certification course **session** on “**NETWORK ANALYSIS and Synthesis**” for Faculty Department Training of Department of Electrical Engineering. The speaker was **Dr. Y. V. Hote, Dr V.S Bandal, Dr. D.B. Talange, Prof. V.b. Waghman, Dr. H.R.Jariwala, Dr. Rahee Walambe** and **Mr Hrishikesh Mehta**

**No. of Participants:**20

**Faculty Coordinator and Members:**

1. Prof. M.R. Hans



2. Prof. R.M. Zende
3. Prof. C.V. Deshpande

Thanking You.

Prof. M.R. Hans

Prof. R.M. Zende

Prof. C.V. Deshpande

**Course Coordinator**

### **Objective:**

The main objective of **Network Analysis and Synthesis** course **session is to:**

- a) To study the fundamental concepts related to Network Analysis and Synthesis.
- b) To develop analytical qualities in Electrical circuits by application of various theorems.
- c) To understand the behavior of circuits by analyzing the transient response using classical methods and Laplace Response approach.
- d) To apply knowledge of network theory for analysis of power system, control system, EHV AC transmission, Two port networks and designs of other circuit like filters etc.
- e) To discuss various methods of network analysis by hands on training on MATLAB.



ZEAL EDUCATION SOCIETY'S  
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RESEARCH NARHE| PUNE -41| INDIA

Attendance of FDP

“Network Analysis and Synthesis”

S.NO	Name of Faculty	05/12/2017	06/12/2017	07/12/2017	08/12/2017	09/12/2017
1.	Bhushan s. Kunure	P	P	P	P	P
2.	Sanjay A. Deokar	P	P	P	A	P
3.	Swati U. Shinde	P	P	P	A	A
4.	Prashant Kumar	A	P	P	P	P
5.	Sudhir G. Mane	A	P	A	P	P
6.	Sachin L. Sarwade	P	P	P	P	P
7.	Kunal K.Joshi	A	A	P	P	P
8.	Amrute M. Patil	P	P	P	A	A
9.	Vishal Tathe	P	P	P	P	P
10.	Pramod Marne	P	P	P	P	A
11.	Swaleha Janwadkar	A	P	P	P	A
12.	Bhagyashri Sherkhane	P	P	A	A	P
13.	Snehal Dharme	P	P	P	P	P
14.	KamalSandeep Kardulla	P	P	P	P	A
15.	Ranjitkumar Biradar	A	P	P	P	P
16.	Anupama Patil	P	P	A	P	P
17.	Atualkumar S. Verma	P	P	P	A	P
18.	Sandip G Surwase	P	P	P	P	P
19.	Jaysing A. Kshirsagar	P	P	P	P	P
20.	Chaitanya V. Deshpande	P	P	P	P	P



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ZEAL COLLEGE OF ENGINEERING AND  
RESEARCH NARHE| PUNE -41| INDIA


3485



# Certificate



This is to certify that Mr./Ms. Bhushan S. Kunure  
has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
“ Network Analysis and Synthesis ” held during  
5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and  
Research, Narhe, Pune, Maharashtra

  
Advisor, AICTE

  
Executive Secretary, ISTE

  
Principal

  
Program Coordinator

3473



# Certificate



This is to certify that Mr./Ms. Sanjay A. Deokar

has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
“ Network Analysis and Synthesis ” held during

5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and

Research, Narhe, Pune, Maharashtra

Advisor, AICTE

Executive Secretary, ISTE

Principal

Program Coordinator

3477



# Certificate

*Swati U. Shinde*

This is to certify that Mr./Ms. \_\_\_\_\_

has successfully completed AICTE-ISTE approved Induction/Refresher Programme

“ *Network Analysis and Synthesis* ”

held during

5/12/2017

to

9/12/2017

Organized by Zeal College of Engineering and

Research, Narhe, Pune, Maharashtra

Advisor, AICTE

Executive Secretary, ISTE

Principal

Program Coordinator

3480



# Certificate



This is to certify that Mr./Ms. Prashantkumar

has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
“ Network Analysis and Synthesis ” held during

5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and

Research, Narhe, Pune, Maharashtra

**Advisor, AICTE**

**Executive Secretary, ISTE**

**Principal**

**Program Coordinator**

3481



# Certificate



This is to certify that Mr./Ms. Sudhir G. Mane  
has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
“ Network Analysis and Synthesis ” held during  
5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and  
Research, Narhe, Pune, Maharashtra

Advisor, AICTE

Executive Secretary, ISTE

Principal

Program Coordinator



3490



# Certificate

*Sachin L. Sarwade*

This is to certify that Mr./Ms. \_\_\_\_\_

has successfully completed AICTE-ISTE approved Induction/Refresher Programme

“ *Network Analysis and Synthesis* ” held during

5/12/2017 to 9/12/2017 Organized by *Zeal College of Engineering and*

*Research, Narhe, Pune, Maharashtra*

**Advisor, AICTE**

**Executive Secretary, ISTE**

**Principal**

**Program Coordinator**

3489



# Certificate



This is to certify that Mr./Ms. Kunal K. Joshi

has successfully completed AICTE-ISTE approved Induction/Refresher Programme

“ *Network Analysis and Synthesis* ”

held during

5/12/2017

to

9/12/2017

Organized by

Zeal College of Engineering and

Research, Narhe, Pune, Maharashtra

Advisor, AICTE

Executive Secretary, ISTE

  
Principal

Program Coordinator

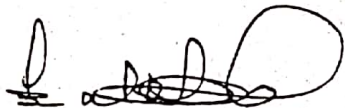
3492



# Certificate



This is to certify that Mr./Ms. Amruta M. Patil  
has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
“ Network Analysis and Synthesis ” held during  
5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and  
Research, Narhe, Pune, Maharashtra

  
Advisor, AICTE

  
Executive Secretary, ISTE

  
Principal

  
Program Coordinator

3493



# Certificate



This is to certify that Mr./Ms. Vishal Tathe  
has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
“ Network Analysis and Synthesis ” held during  
5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and  
Research, Narhe, Pune, Maharashtra

Advisor, AICTE

Executive Secretary, ISTE

Principal

Program Coordinator


3494



# Certificate



This is to certify that Mr./Ms. *Pramod Marne*  
has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
“ *Network Analysis and Synthesis* ” held during  
*5/12/2017* to *9/12/2017* Organized by *Zeal College of Engineering and*  
*Research, Narhe, Pune, Maharashtra*

  
Advisor, AICTE

  
Executive Secretary, ISTE

  
Principal

  
Program Coordinator

3495




# Certificate



This is to certify that Mr./Ms. Swaleha Janwadkar

has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
“ Network Analysis and Synthesis ” held during

5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and  
Research, Narhe, Pune, Maharashtra

  
Advisor, AICTE.

  
Executive Secretary, ISTE

  
Principal

  
Program Coordinator

3496



# Certificate



This is to certify that Mr./Ms. Bhagyashri Sherkhane

has successfully completed AICTE-ISTE approved Induction/Refresher Programme

“ Network Analysis and Synthesis ” held during

5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and

Research, Narhe, Pune, Maharashtra

Advisor, AICTE

Executive Secretary, ISTE

Principal

Program Coordinator

3491



# Certificate



This is to certify that Mr./Ms. Snehal Dharme  
has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
“ Network Analysis and Synthesis ” held during  
5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and  
Research, Narhe, Pune, Maharashtra

Advisor, AICTE

Executive Secretary, ISTE

Principal

Program Coordinator



3498



# Certificate

This is to certify that Mr./Ms. Kamal Sandeep Kardulla

has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
“ Network Analysis and Synthesis ” held during

5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and

Research, Narhe, Pune, Maharashtra

Advisor, AICTE

Executive Secretary, ISTE

Principal

Program Coordinator

3500



# Certificate



This is to certify that Mr./Ms. Ranjitkumar Biradar

has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
“ Network Analysis and Synthesis ” held during

5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and

Research, Narhe, Pune, Maharashtra

  
Advisor, AICTE

  
Executive Secretary, ISTE

  
Principal

  
Program Coordinator

3497



# Certificate

This is to certify that Mr./Ms. Anupama Patil

has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
“ Network Analysis and Synthesis ” held during

5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and

Research, Narhe, Pune, Maharashtra

  
Advisor, AICTE

  
Executive Secretary, ISTE

  
Principal

  
Program Coordinator

3483



# Certificate




This is to certify that Mr./Ms. Atulkumar S. Verma

has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
“ Network Analysis and Synthesis ” held during

5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and

Research, Narhe, Pune, Maharashtra

  
Advisor, AICTE

  
Executive Secretary, ISTE

  
Principal

  
Program Coordinator

3484



# Certificate



This is to certify that Mr./Ms. Sandip G. Surwase

has successfully completed AICTE-ISTE approved Induction/Refresher Programme

“ Network Analysis and Synthesis ” held during

5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and

Research, Narhe, Pune, Maharashtra

Advisor, AICTE

Executive Secretary, ISTE

Principal

Program Coordinator

3486



# Certificate



This is to certify that Mr./Ms. Jaysing A. Kshirsagar

has successfully completed AICTE-ISTE approved Induction/Refresher Programme

“ Network Analysis and Synthesis ” held during

5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and

Research, Narhe, Pune, Maharashtra

Advisor, AICTE

Executive Secretary, ISTE

Principal

Program Coordinator

3487



# Certificate

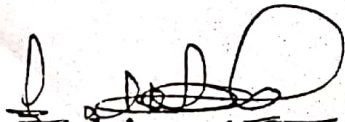


This is to certify that Mr./Ms. Chaitanya V. Deshpande

has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
“ Network Analysis and Synthesis ” held during

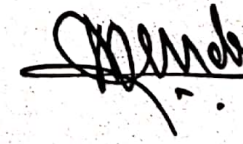
5/12/2017 to 9/12/2017 Organized by Zeal College of Engineering and

Research, Narhe, Pune, Maharashtra

  
Advisor, AICTE

  
Executive Secretary, ISTE

  
Principal

  
Program Coordinator



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



**Report on FDP- Advances in Power System**

**Department: Electrical Engg.**

**Academic Year: 2017-18**

**Date: 5/6/18 to 9/6/18**

To,  
The Principal,  
ZCOER, Pune

**Through: HOD, Department of Electrical Engineering**

**Subject:** Submission of the report of FDP on “Advances in Power System” of Department of Electrical Engineering.

**Respected Sir,**

With above reference, we have successfully organized FDP session on “Advances in Power System” for faculties of Department of Electrical Engineering.

**No. of Participants:20**

**Faculty Coordinator and Members: Prof. A.S. Patil**

Thanking You.





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

Attendance of FDP

“Advances In Power system”

S.NO	Name of Faculty	05/06/2017	06/06/2017	07/06/2017	08/06/2017	09/06/2017
1.	Bhushan s. Kunure	P	P	P	P	P
2.	Sanjay A. Deokar	P	P	P	A	P
3.	Swati U. Shinde	P	P	P	A	A
4.	Prashant Kumar	A	P	P	P	P
5.	Sudhir G. Mane	A	P	A	P	P
6.	Sachin L. Sarwade	P	P	P	P	P
7.	Kunal K.Joshi	A	A	P	P	P
8.	Amrute M. Patil	P	P	P	A	A
9.	Vishal Tathe	P	P	P	P	P
10.	Swaleha Janwadkar	A	P	P	P	A
11.	Bhagyashri Sherkhane	P	P	A	A	P
12.	Snehal Dharme	P	P	P	P	P
13.	KamalSandeep Kardulla	P	P	P	P	A
14.	Jasraj Kulkarni	P	P	P	P	A
15.	Ranjitkumar Biradar	A	P	P	P	P
16.	Anupama Patil	P	P	A	P	P
17.	Atualkumar S. Verma	P	P	P	A	P
18.	Sandip G Surwase	P	P	P	P	P
19.	Jaysing A. Kshirsagar	P	P	P	P	P
20.	Chaitanya V. Deshpande	P	P	P	P	P