



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



**6.3.3 Number of teaching and non-teaching staff participating in  
Faculty development Programmes (FDP), professional development  
/administrative training programs**

**Academic Year 2017-18**

Sr. No.	Title of the FDP / professional development / administrative training program	Number of Participants
1	Teaching Learning practices in Structural Design & Drawing	1
2	One day skill building workshop on best concrete practices	4
3	Teaching Learning practices in structural analysis	13
4	Application of Remote Sensing And GIS Technology using Q-GIS	2
5	Structural Analysis and Design using STAD Pro + Manual Design	1
6	Teaching Learning practices in Structural Design & Drawing	1



*[Signature]*  
**HOD**  
Dept of Civil Engineering  
ZES's Zeal College of  
Engineering & Research  
Narhe, Pune-411 041



Zeal Education Society's

## Zeal College of Engineering & Research, Pune

Department of Civil Engineering

AICTE - ISTE Approved


One week Short Term Training Program on

**"Teaching Learning Practices in Structural Design and Drawing"**

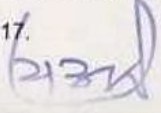
4<sup>th</sup> to 8<sup>th</sup> December, 2017

### CERTIFICATE

This is to certify that, Dr. /Mr. /Ms. /Mrs. Guruprasad S. Anarkar  
has participated in Short Term Training Program on "Teaching Learning Practices in Structural Design and Drawing" held  
at Zeal College of Engineering and Research, Pune- 411041 during 4<sup>th</sup> to 8<sup>th</sup> December 2017.

  
**Dr. P. R. Walvekar**  
Convener & Head,  
Civil Department

  
**Dr. A. M. Kate**  
Principal  
Zeal College  
of Engineering & Research,  
Pune-411041

  
**Dr. S. A. Deokar**  
Campus Director,  
Zeal Education Society, Pune



ZEAL EDUCATION SOCIETY'S  
ZEAL COLLEGE OF ENGINEERING AND RESEARCH  
DEPARTMENT OF CIVIL ENGINEERING

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FDP, WORKSHOPS, CONFERENCES CONDUCTED

Year	Title of FDP workshops, conferences
AY 2016-17	Teaching learning practices in structural analysis



## FDP, WORKSHOPS, CONFERENCES CONDUCTED

INDEX	
Sr. No.	Particulars
	<i>FDP for year 2016-17</i>
1	Report with photographs
2	Proposal with budget
3	Approval with grants received if any
4	Brochure
5	Invitation to resource persons
6	Consent from resource persons
7	Schedule
8	Registration
9	Session wise attendance
10	Feedback
11	Sample certificate
12	Complete expenditure
13	Proof of payments

To  
The Chairman  
ISTE, New Delhi

Date: 31/5/2017

**Subject: Approval for self financed one week faculty development program (FDP) on Department of Civil Engineering under AICTE-ISTE New Delhi.**

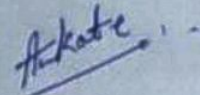
Dear Sir

I am Dr. Walvekar Pralhad P. Head and Associate Professor in Civil Engineering Department for Zeal Education Society's Zeal College of Engineering and Research (ZCOER), Pune going to organize **self-financed** faculty development program (FDP) on Civil Engineering in the duration 6<sup>th</sup> June to 10<sup>th</sup> June 2017 at ZCOER under **AICTE-ISTE, New Delhi.**

This FDP will provide platform for faculties of degree level Institutions to improve teaching-Learning process. So, I request you to give us approval so that the weight-age of our FDP may increase. Hope you will approve it as early as possible.



Dr. P. P. Walvekar  
Convener



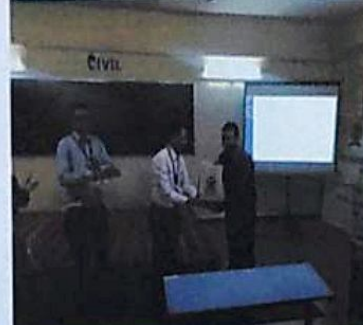
Dr. Ajit Kate  
Principal

Photo Gallery of FDP on "Teaching Learning Practices in Structural Analysis"

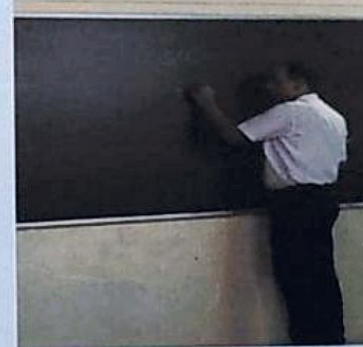
1st day



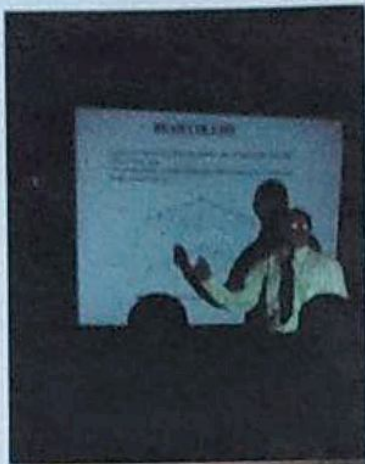
2nd day



3rd day



4 th day



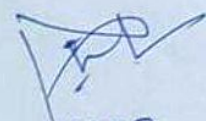
5 th day



5th  
day



Patil  
Prof. Patil S. S.  
FDP CO-ORDINATOR

  
HOD  
Civil Dept.





ZES's

Zeal College of Engineering and Research, Pune  
Department of Civil Engineering

Date -

Revised Budget for Five Days STTP

Sr. No.	Item	Nos.	Rate	Total Amount
<b>I Guest (Remuneration and TA)</b>				
1	Indore	01	10,000/-	10000/-
2	Surat	01	20000/-	20000/-
3	Sangli	01	2000/-	2000/-
4	Accommodation and dinner	02	15000/-	30000/-
5	Mementos to guest	05	300/-	1500/-
6	Remuneration of guest	04	10000/-	40000/-
			<b>Total</b>	103,500/-
<b>II Printing</b>				
1	Certificates	40	10/-	400/-
2	Banners	02	500/-	1000/-
			<b>Total</b>	1400/-
<b>III Participants</b>				
1	Snacks & tea (for 5 days)	35	50	1750/-
2	Lunch (for 5 days)	35	55	1925/-
3	Workshop kit (Note pad & pen)	40	50/-	2000/-
			<b>Total</b>	50,750/-
<b>IV Miscellaneous</b>				
1	Flowers, rangoli, etc. for inaugural and Valedictory Function			2000/-
			<b>Total Expenditures</b>	1,57,650/-
Registration fee				
1	Participants	20	1000/-	20000/-
			<b>Total Income</b>	20000/-
			<b>Total Expenditures</b>	1,37,650/-
			<b>Amount Required</b>	1,37,650/-

5000/-

5250/-  
28250/-

Allow 1,10,000/-  
Foster

RS. 1,10,000/-  
Forwarded for approval.  
(Signature)

Dr. P. P. Walvekar  
HOD, Civil Engineering



ZES's

Zeal College of Engineering and Research, Pune

Department of Civil Engineering

Date - 09/05/2017

**Budget for Three Days Faculty Training Program**

Sr. No.	Item	Nos.	Rate	Total Amount
<b>I Guest (Remuneration and TA)</b>				
1	Indore	01	10,000/-	10000/-
2	Surat	01	20000/-	20000/-
3	Sangli	01	2000/-	2000/-
4	Accommodation of guests	02	6000/-	12000/-
5	Mementos to guest	03	300/-	900/-
6	Remuneration of guest	03	10000/-	30000/-
			<b>Total</b>	<b>74,900/-</b>
<b>II Printing</b>				
1	Certificates	40	10/-	400/-
2	Banners	02	500/-	1000/-
			<b>Total</b>	<b>1400/-</b>
<b>III Participants</b>				
1	Snacks & tea (for 3 days)	50	30/-	4500/-
2	Lunch (for 3 days)	55	150/-	24750/-
3	Workshop kit (Note pad & pen)	40	50/-	2000/-
			<b>Total</b>	<b>31,250/-</b>
<b>IV Miscellaneous</b>				
1	Flowers, rangoli, etc. for inaugural and Valedictory Function			2000/-
			<b>Total Expenditures</b>	<b>1,10,650/-</b>
	Registration fee			
1	Participants	20	1000/-	20000/-
			<b>Total Income</b>	<b>20000/-</b>
			<b>Total Expenditures</b>	<b>90,650/-</b>
			<b>Amount Required</b>	<b>90,650/-</b>

Allow 90,000/-  
J. Jotkar

Dr. P. P. Walvekar  
HOD, Civil Engineering

# INDIAN SOCIETY FOR TECHNICAL EDUCATION



FOUNDED 1968

## SHORT-TERM TRAINING PROGRAMMES (STTPS)

### PROFORMA FOR SENDING PROPOSALS (For Chapters of Indian Society for Technical Education)

**Note :** Before filling up the Proforma, please read carefully the rules and conditions  
(To be filled in by Coordinator)

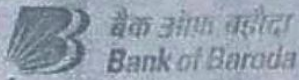
1. Name and Address of Host Institution with Pin code	Address: zeal Education Society's Zeal College of Engineering & Research Narhe Pune Pin Code : 411041 Phone: 020-67206000 Fax: Email: zcoer@zealeducation.com	
2. Title of the Programme (This should convey the content & main thrust of the programme) (In Capital Letters, please)	Faculty Development Programme on "Teaching Learning Practices in Structural Analysis"	
3. The Programme is intended for (Tick one only)	<input checked="" type="checkbox"/> Teachers <input type="checkbox"/> Working Professionals <input type="checkbox"/> Others (specify)	
4. Name, Designation and Address of the Course Coordinator(s) (One Coordinator preferred. More than two not permissible)	1. Dr. Pralhad Waverkar Pune	2. Prof. Ms. Patil S.S. Pune
- Telephone, Mobile & Email of the Coordinator(s)	8975760046	0992334877 992334877
- Highest Qualification of Coordinator(s)	Ph.D.	ME
- Area of Specialisation	Environmental Engg	Structural Engg.

-	Teaching Experience (years)	11	08
-	Industry Experience (years)	03	1.5
-	Number of papers published	14	02
-	Number of Short-Term Courses of Summer/Winter Schools attended	02	—
-	Number of Short-Term Courses of Summer/Winter Schools conducted earlier	—	—
5.	Specialisation area for which the proposal is made (tick one only)	<input checked="" type="checkbox"/> Civil <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Electronics <input type="checkbox"/> Computer Science <input type="checkbox"/> Pharmacy <input type="checkbox"/> Architecture <input type="checkbox"/> Management <input type="checkbox"/> Hotel Management	<input type="checkbox"/> Basic Sciences (Specify subject) <input type="checkbox"/> Interdisciplinary (Specify areas covered) <input type="checkbox"/> Others (specify)
6.	The course is basically (Tick one only)	<input checked="" type="checkbox"/> Subject updating course <input checked="" type="checkbox"/> Special course on Emerging areas <input type="checkbox"/> Pedagogy <input type="checkbox"/> Other (Specify)	
7.	Whether the proposal covers any of the categories indicated (Tick one only)	<input type="checkbox"/> Industry-based programmes with substantial involvement of industry and its experts <input type="checkbox"/> Education Technology/Methodology of teaching <input type="checkbox"/> Training for technical supporting staff <input type="checkbox"/> Emerging Area <input type="checkbox"/> Others (specify)	
8.	Duration of the programme (Tick one only)	<input checked="" type="checkbox"/> One week (minimum 5 working days) <input type="checkbox"/> Two weeks (minimum 10 working days) <input type="checkbox"/> Three weeks (minimum 15 working days) <input type="checkbox"/> Four weeks (minimum 20 working days)	

9.	Proposed dates for the Programme (specify dates) which may be changed later, if required	From..... <u>6th JUNE</u> .....To..... <u>10th JUNE</u> ..... <b>Note : It is advisable to commence programme on MONDAY</b>
10	Do you have enough expertise within your institute and neighbouring places to offer the course satisfactorily? If NO, list the names and addresses of outside faculty needed. At least one faculty from IITs or NIITs	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name of faculty from IITs/NIITs Faculty from other institutes 1. Dr. Sandeep Chaudhary IIT Indore 1. Dr. M.R. Shiyekar ACOE Kasad 2. Dr. K Gopi Krishna NIT Warangal 2. 3. 3. 4. 4.

**COURSE DETAILS**

1.	Significance & Objectives of the programme (list one or two major objectives)	1. To shape up teaching learning practices regarding structural analysis. 2. To groom the faculty members about effective content delivery																		
2.	Course Content/Coverage (List 5 to 8 major topics with proposed duration of coverage in hours for each topic)	<table border="1"> <thead> <tr> <th>Topic</th> <th>Duration</th> </tr> </thead> <tbody> <tr> <td>1. Fundamentals of Mechanics</td> <td>- 3 hrs</td> </tr> <tr> <td>2. Stress - Strain analysis</td> <td>- 3 hrs</td> </tr> <tr> <td>3. Shear &amp; bending analysis</td> <td>- 3 hrs</td> </tr> <tr> <td>4. Analysis of beam</td> <td>- 3 hrs</td> </tr> <tr> <td>5. ILD</td> <td>- 3 hrs</td> </tr> <tr> <td>6. Plastic Analysis</td> <td>- 3 hrs</td> </tr> <tr> <td>7. Finite Element method</td> <td>- 3 hrs</td> </tr> <tr> <td>8.</td> <td></td> </tr> </tbody> </table>	Topic	Duration	1. Fundamentals of Mechanics	- 3 hrs	2. Stress - Strain analysis	- 3 hrs	3. Shear & bending analysis	- 3 hrs	4. Analysis of beam	- 3 hrs	5. ILD	- 3 hrs	6. Plastic Analysis	- 3 hrs	7. Finite Element method	- 3 hrs	8.	
Topic	Duration																			
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3. Shear & bending analysis	- 3 hrs																			
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5. ILD	- 3 hrs																			
6. Plastic Analysis	- 3 hrs																			
7. Finite Element method	- 3 hrs																			
8.																				
3.	Course Schedule	<table border="1"> <tbody> <tr> <td>Total working days</td> <td>= 5</td> </tr> <tr> <td>Lecture</td> <td>= hrs.</td> </tr> <tr> <td>Laboratory/Practical</td> <td>= 4 hrs.</td> </tr> <tr> <td>Industrial/Field Visits</td> <td>= 2 hrs.</td> </tr> <tr> <td>Others (specify Inaugural + validity)</td> <td>= 2 hrs.</td> </tr> <tr> <td>Total hours engaged</td> <td>= 29 hrs.</td> </tr> </tbody> </table>	Total working days	= 5	Lecture	= hrs.	Laboratory/Practical	= 4 hrs.	Industrial/Field Visits	= 2 hrs.	Others (specify Inaugural + validity)	= 2 hrs.	Total hours engaged	= 29 hrs.						
Total working days	= 5																			
Lecture	= hrs.																			
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Industrial/Field Visits	= 2 hrs.																			
Others (specify Inaugural + validity)	= 2 hrs.																			
Total hours engaged	= 29 hrs.																			
4.	Details of special equipment or laboratory facilities available for the course																			
5.	Collaboration with industry/ other institutions/ departments (indicate name of organization, nature of collaboration and experts involved)	1. Er. Vishal Nalwar AKES Solutions, Pune Er. Prashant S. Patil 2. Apex, Consultant Pune.																		



बैंक ऑफ बरोडा  
 सि. नं. ०१४, पुणे - ४११०३०  
 SINHAGAD ROAD, PUNE - 411030  
 36160015181192

प्रकार DEMAND  
 ड्राफ्ट DRAFT

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शु. ०३	३
शु. ०४	४
शु. ०५	५
शु. ०६	६
शु. ०७	७
शु. ०८	८
शु. ०९	९

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One Thousand only

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\*\*\*\*\*1,000.00

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 For Bank of Baroda

\*\*\* NOT CASH ENR. 1,000.00 \*\*\*

SERVICE BR DELHI

अदाकारी शाखा / Drawee Branch

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 ह.स.न./S.S. NO. (

शाखा प्रबंधक / Branch Manager

ह.स.न./S.S. NO. K-2582

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# भारतीय तकनीकी शिक्षा सस्था INDIAN SOCIETY FOR TECHNICAL EDUCATION

(Under the Societies' Registration Act XXI of 1860)

**Prof. Vaidya Vijay Dattatray**  
Executive Secretary

ISTE/Proceedings/STTP-SF/MAH-81/2017-18

June 07, 2017

## Proceedings of Executive Secretary, ISTE

Sub.: Sanction to conduct full-time AICTE-ISTE Self Financing orientation/refresher programmes for the year 2017-2018.

Please refer to your proposal for conducting STTP on Self Financing Basis. It is informed that ISTE has signed MoU with AICTE to conduct Orientation programs on Self Financing basis. These programs will be jointly certified by AICTE. It is my pleasure to consider your program under this plan. sanction is hereby accorded to you for the conduct of the programme on self-financing basis under AICTE-ISTE Self Financing orientation/refresher programme.

Name of Institution : Zeal College of Engineering & Research  
Pune - 411 041

Topic : Teaching Learning Practices In Structural  
Analysis

Name & Address of Coordinators : Dr. P.P. Walvekar Prof. S.S. Patil  
Prof. Asst. Prof.

Duration : One Week  
(Minimum 05 Working Days)

Proposed dates : 06-06-2017 to 10-06-2017

### Terms and Conditions:-

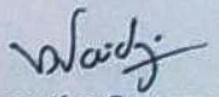
- 1 The institution offering the Programmes should be approved by AICTE and must be Institutional Member of ISTE. Institutions having ISTE Faculty Chapter and Students Chapter shall be preferred.
- 2 ISTE Life membership is necessary to attend SF programmes. However, If any participant is not having life membership he/she may take membership of ISTE before the starting of the course and apply by paying the fee to the course coordinator at the spot before the commencement of the programme.
- 3 There will be no financial commitment on the part of ISTE on account of this programme.
- 4 The fee of one proposal is Rs. 1000/- paid by DD in favour of ISTE New Delhi along with proposal.
- 5 This will be a full-time program and duration of 1 week/2 weeks/4 weeks.

--/-

Shaheed Jeet Singh Marg, Near Katwaria Sarai, New Dehli - 110 016

Phone: 91-11-26513542, 26563431, 26514234. Fax: 91-11-26952421. E-mail: [istedho@vsnl.net](mailto:istedho@vsnl.net), Website: [www.isteonline.in](http://www.isteonline.in)

- 6 A processing and operational charges @Rs.300/- per participants including certificate printing and handling and postage charges is to be paid to ISTE Headquarters after the program along with the final report as mentioned in item 8 below.
- 7 The registration fee of the participants may be fixed by the host institution.
- 8 Within 15 days after completion of the Programme the final report including list of participants (with their ISTE Membership Number or filled up application forms/list of non-members with Life Membership fee), schedule of the programme with dates, copy of the course notes must be sent to ISTE Headquarters, Delhi along with a combined DD @Rs300/- per participant as mentioned above and membership fee for non-members, if any, in favour of "ISTE, New Delhi".
- 9 The EC/SMC Member of ISTE preferably from nearby area may be invited during the STTP.
- 10 Participation Certificates will be issued jointly by ISTE Hqs. & AICTE New Delhi to the participants. Course Coordinator to kindly ensure correctness of the names in the list/soft copy of participant's names to enable ISTE to print names exactly the same as appear in the list provided. ISTE HQs Delhi will send participation certificates back to the course coordinator.
- 11 The Programmes shall be considered for the Career Advancement Scheme of AICTE.

  
**Executive Secretary**

To,

Dr. Ajit Kate  
Principal  
Zeal College of Engineering & Research  
S.No. 39, Narhe, Pune - 411 041  
Maharashtra State

Copy to:

Dr. P.P. Walvekar  
Coordinator  
Zeal College of Engineering & Research  
S.No. 39, Narhe, Pune - 411 041  
Maharashtra State



Zeal Education Society's  
**ZEAL COLLEGE OF ENGINEERING & RESEARCH, PUNE**  
 Department of Civil Engineering  
**FDP on "Teaching Learning Practices in Structural Analysis"**

Name of Participant: \_\_\_\_\_  
 Designation: \_\_\_\_\_  
 Name of Organisation: \_\_\_\_\_  
 Qualification: \_\_\_\_\_  
 Address for Correspondence: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Mob No: \_\_\_\_\_  
 E-mail: \_\_\_\_\_

Payment Mode  
 Online: You can make online Payment using NEFT/IMPS  
 Account No: 053011100003398  
 IFSC Code: ABHY0065110, MICR Code: 411065013  
 Bank: Abhyudaya Co-op, Bank Ltd, Sinhgad road, Pune  
 Participants should mail transaction receipt of online payment to:  
 surekha.patil@zealeducation.com  
 Demand Draft: Demand Draft can be drawn in favor of "Zeal College of Engineering & Research" payable at Pune

(Participant's Signature)

(Sign & Seal of Sponsoring Authority)

Note: Photocopy of this form can be used.

Assistance for the accommodations will be provided.  
 Registration Charges: Rs. 1000/- for each participants  
 (Inclusive of service charges)  
 Registration Charges include tea, breakfast, lunch and kit.

For more details:  
[www.zcoer.in](http://www.zcoer.in), [www.zealeducation.com](http://www.zealeducation.com)

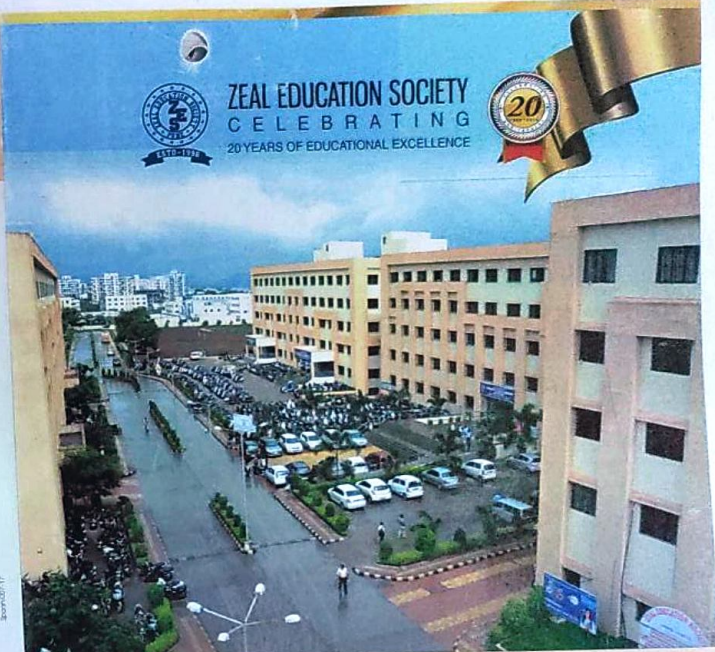
**DIRECTION MAP**  
 TO  
 ZEAL NARHE CAMPUS



This information given in catalogue is indicative and is subject to change for betterment of the program. Students should refer to prospectus or visit website for further details.



**ZEAL EDUCATION SOCIETY**  
 CELEBRATING  
 20 YEARS OF EDUCATIONAL EXCELLENCE



**Mission**

- To contribute to society through the pursuit of education and research.
- To provide individual attention for character building to make students enlightened.
- To produce competent and socially responsible professionals.

**Vision**

To impart value added futuristic technological education.

**FDP**

"Teaching Learning Practices in Structural Analysis"

June 06 to 10 2017

## FACULTY DEVELOPMENT PROGRAMME

### "Teaching Learning Practices in Structural Analysis"

#### About Zeal Education Society

Zeal Education Society (ZES) was established in year 1996 under the able guidance of Hon. Shri. S. M. Kalkar 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 Dryanganga English Medium school, Dryanganga Junior college, Dryanganga college of education, Silver Crest School at Hingana 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 & Research

Zeal Education Society's Zeal College of Engineering and Research (Formally Known as Dryanganga College of Engineering and Research) was 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, infrastructure, 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.

#### About Civil Engineering Department

A new feather in the cap of Zeal Education Society, the Civil Engineering Department was established in 2013. Although new, the department offers top class infrastructure to explore the potential of our students. Zeal College of Engineering and Research offers a four years course leading to Bachelor's degree in Civil Engineering with an intake capacity of 60. Like all other institutes under Zeal College, the Civil Engineering Department is determined to offer and maintain high standards in extremely competitive and demanding world.

#### About FDP

It has been observed that undergraduate Civil Engineering students feel some difficulties in understanding the structural analysis subjects. In this context, it is necessary to train students with good scientific and engineering principles so that they can analyze and design different types of structures. On the contrary faculty find it challenging to teach this subject due to difficulty in visualizing the behavior of different structures. To shape up teaching learning practices and groom the faculty members about effective content delivery, Civil Engineering Department is organizing faculty development program.

#### Resource Persons



**Dr. M. R. Shiyekar**  
Adjunct Professor,  
Government College of Engineering, Karad.



**Dr. Sandeep Chaudhary**  
Associate Professor,  
IIT, Indore.



**Dr. K. Gopi Krishna**  
Assistant Professor,  
NIT, Warangal.



**Er. Vishal Mahwar**  
Chief Engineer,  
Aker Solutions, Pune.



**Er. Prashant S. Patil**  
Director  
Apex, Consultant Pune.

#### CHIEF PATRONS

**Hon'ble Mr. S. M. Kalkar**  
Founder Director  
Zeal Education Society, Narhe, Pune.

**Hon'ble Mr. J. S. Kalkar**  
Executive Director  
Zeal Education Society, Narhe, Pune.

#### PATRONS

**Dr. S. A. Deokar**  
Campus Director

**Dr. A. M. Kate**  
Principal

#### CONVENER

**Dr. P. P. Walvekar**

#### CO-ORDINATOR

**Prof. Mrs. S. S. Patil**



ZEAL EDUCATION SOCIETY'S

# ZEAL COLLEGE OF ENGINEERING AND RESEARCH

(Formerly Dryanganga College of Engineering and Research)

(Approved by AICTE, New Delhi and Affiliated to Savitribai Phule Pune University, Pune)

S. No. 39, Narhe, | PUNE - 411 041 | INDIA . Phone No. 020-6720 6000/104 Tele Fax. 020-6720 6101

E-mail: principal.zcoer@zealeducation.com, Website: www.zcoer.org

Hon. S. M. Katkar

B.A. (Hons), L.L.B.

FOUNDER DIRECTOR

ZCOER (Civil) Admin/17-18/01

Dr. A. M. Kate

M. E., Ph. D. (Mech.)

PRINCIPAL

Date: 27/05/2017

## CHIEF PATRON

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Founder Director  
Zeal Education Society, Pune

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Executive Director  
Zeal Education Society, Pune

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HOD, Civil Engineering  
ZCOER, Pune.

## Coordinator

Mrs. S. S. Patil  
Assistant Professor  
Department of Civil Engineering  
ZCOER, Pune.

## Organizing Committee

Prof. N. N. Deo  
Prof. G. S. Anaokar  
Prof. A. D. Kulkarni  
Prof. T. N. Kulkarni  
Prof. M. G. Mohite  
Prof. A. S. Mahajan  
Prof. A. N. Sanadi  
Prof. A. K. Chorage  
Prof. A. R. Bansode  
Prof. P. K. Navale

To,  
Dr. M. R. Wakchaure  
Professor  
Amrutvahini College of Engineering, Sangamner

Sub: Invitation as a Guest Speaker for Faculty Development Program  
"Teaching Learning Practices in Structural Analysis" during June 6-10, 2017

Dear Sir,

Greetings from ZCOER, Pune!

Zeal College of Engineering and Research (ZCOER), Narhe, Pune (Maharashtra) established in the year 1996, offers six undergraduate courses in Civil Engineering, Computer Engineering, Electrical Engineering, Electronics & Telecommunication Engineering, Information Technology and Mechanical Engineering. The Post graduate courses offered are Computer Engineering, Power Systems, VLSI & Embedded Systems and Mechanical Engineering (Design Engineering and Computer Aided Design and Manufacturing Engineering). We also offer MBA courses. The College is approved Research Center for PhD and Research Studies in Mechanical and Electronics & Telecommunication Engineering.

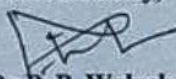
Department of Civil Engineering of Zeal College of Engineering and Research, Pune has planned to organize a FDP on "Teaching Learning Practices in Structural Analysis" during June 6-10, 2017 at our Narhe campus, Pune.

This FDP aims to shapeup teaching learning practices and to groom the faculty members about effective content delivery concerned to structural analysis subjects. The participants are faculty members from various engineering institutes.

We would like to invite you for this Faculty Development Program as a Guest Speaker for the sessions on "Prerequisites for structural Analysis" on June 6, 2017.

You are requested to kindly accept our invitation and grace this Event. Looking forward for your favorable response.

Thanking you,  
Yours sincerely,

  
Dr. P. P. Walvekar  
Convener and HOD, Civil Engineering



ZEAL EDUCATION SOCIETY'S

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PRINCIPAL

ZCOER / CIVIL / Admin / 17-18 / 07

Date: 06/06/2017

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Zeal Education Society, Pune

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Prof. P. K. Navale

To,

Dr. M. R. Wakchaure  
Professor

Amrutvahini College of Engineering, Sangamner.

Dear Sir/Madam,

It is pleasure to express deep gratitude for you being here in Department of Civil Engineering, Zeal College of Engineering and Research, Pune and devoting your valuable time and knowledge by conducting sessions in Faculty Development Program on "Teaching Learning Practices in Structural Analysis".

Your knowledge and excellent delivery of sessions was very well received by participants. The information in your training sessions and the additional references you have provided were both fascinating and timely. These FDP sessions were really informative. Anticipating same kind of cooperation in future.

Thanking you,  
Yours sincerely,

Dr. P. P. Walvekar  
Convener and HOD, Civil Engineering



ZES's  
 Zeal College of Engineering and Research, Pune  
 Department of Civil Engineering

FACULTY DEVELOPMENT PROGRAM  
 "Teaching Learning Practices in Structural Analysis"

Dated on -6/6/ 2017

Speaker Information

Dr. M. R. Wakchaure



Designation-

Professor,  
 Amrutwahini College of Engineering, Sangamner

Education Qualification-

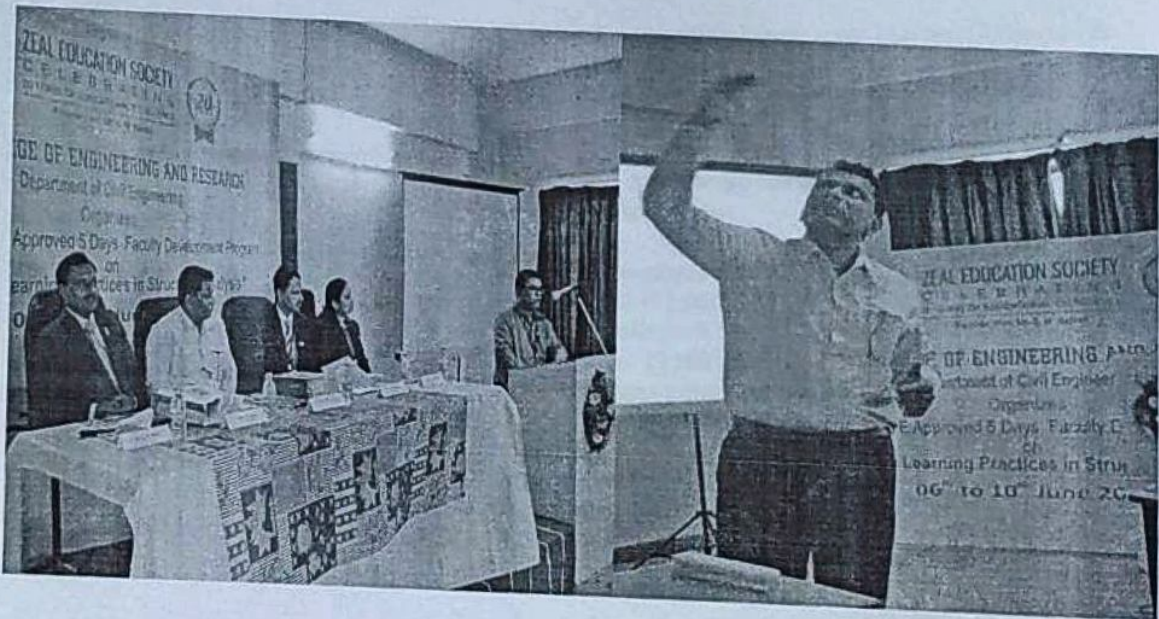
Ph.D

Teaching Experience-

29 years

Content Deliver Session wise-

Time	Session	Content Deliver
10.00 am to 12.00 am	1 st Session	Fundamentals of physics and Mechanics
	2nd Session	Stress & strain evaluation in determinate and indeterminate Sections
1:00 pm to 3:00 pm	3rd Session	Stress & strain evaluation in composite and homogeneous sections
3:15 pm to 5:15 pm	4th Session	Shear and bending analysis



## Bio data



### Dr. Madhukar Ramchandra Wakchaure

1. **Permanent Address** : "CHANDRAMA", Gharkul Housing Society, Opp. Sangamner College, Sangamner, Tal. - Sangamner. Dist. - Ahmednagar, 9422736711, mrw12@rediffmail.com
2. **Date of Birth** : 01/06/1965
3. **Primary education** : Jivan Shikshan Vidya Mandir, Pimparne, Tal -Sangamner
4. **Secondary** : Samata Vidya Mandir, Jorve, Tal -Sangamner
5. **Junior college** : Sahyadri Junior College, Sangamner
6. **Engineering BE (Civil) & ME(Structures)** : Govt. College of Engineering, Pune (COEP)
7. **Ph.D. (Civil Engg.)** : K K Wagh Institute of Engineering Education and Research, Nashik, S P Pune University
8. **Professional Experience** : More than 28 Yrs.  
Amrutvahini College of Engineering, Sangamner
9. **Admin. Experience** : Dean Academic 3 Yrs., Head, Civil Department for 12 Yrs.
10. **Posts Held** : Professor and Dean Academic
11. **Status** : Approved PG Teacher
12. **Guided PG students** : 39
13. **Research Papers** : **Published** : 43, **Presented**: 06
14. **Reviewer for Journals** : Elsevier(Engineering Structures) and Int. Conferences
15. **Area of Interest** : Low Cost Housing / RCC / Prestressed Concrete
16. **Computer knowledge** : AUTOCAD & C  
**Developed a software for RCC Design of Structures**
17. **Hobbies** : Listening Silent Music.
18. **Awards** : a. "**Best structure award**" for Innovative Bamboo Reinforced Concrete (G+1) Building" (2013)  
b. "**Best Research Paper Award**" in UKIERI International Conference, @ NIT Jalandhar, Punjab ( Nov 2015)  
c. Engineering achievement Award by IE I(16 Sept 2016)
19. **Memberships** : a. Ex.Faculty Member Engineering, Univ. of Pune, FIE, LMISTE  
b. Appointed as "**Coordination committee member**" of Board of Studies (BOS), Vice chancellor of S P Pune University by on 07/01/2016



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PRINCIPAL

Date: 22/05/2017

ZCOER/civil/Admin/17-18/02

## CHIEF PATRON

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Prof. A. S. Mahajan  
Prof. A. N. Sanadi  
Prof. A. K. Chorage  
Prof. A. R. Bansode  
Prof. P. K. Navale

To,  
Dr. K. Gopi Krishna  
Assistant Professor,  
NIT, Warangal

**Sub: Invitation as a Guest Speaker for Faculty Development Program on  
"Teaching Learning Practices in Structural Analysis" during June 06-10, 2017.**

Dear Sir,

Greetings from ZCOER, Pune!

Zeal College of Engineering and Research (ZCOER), Narhe, Pune (Maharashtra) established in the year 1996, offers six undergraduate courses in Civil Engineering, Computer Engineering, Electrical Engineering, Electronics & Telecommunication Engineering, Information Technology and Mechanical Engineering. The Post graduate courses offered are Computer Engineering, Power Systems, VLSI & Embedded Systems and Mechanical Engineering (Design Engineering and Computer Aided Design and Manufacturing Engineering). We also offer MBA courses. The College is approved Research Center for PhD and Research Studies in Mechanical and Electronics & Telecommunication Engineering.

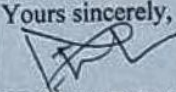
Department of Civil Engineering of Zeal College of Engineering and Research, Pune has planned to organize a FDP on "Teaching Learning Practices in Structural Analysis" during June 6-10, 2017 at our Narhe campus, Pune.

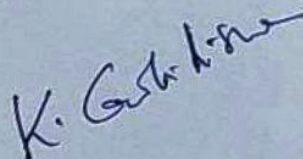
This FDP aims to shapeup teaching learning practices and to groom the faculty members about effective content delivery concerned to structural analysis subjects. The participants are faculty members from various engineering institutes.

We would like to invite you for this Faculty Development Program as a Guest Speaker for the sessions on "Analysis of indeterminate structures using basic structural analysis methods" on June 7, 2017.

You are requested to kindly accept our invitation and grace this Event. Looking forward for your favorable response.

Thanking you,  
Yours sincerely,

  
Dr. P. P. Walvekar  
Convener and HOD, Civil Engineering





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ZCOER/Civil / Admin / 17-18 / 08

Date: 07/06/2017

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To,  
Dr. K. Gopi Krishna  
Assistant Professor  
NIT, Warangal

Dear Sir/Madam,

It is pleasure to express deep gratitude for you being here in Department of Civil Engineering, Zeal College of Engineering and Research, Pune and devoting your valuable time and knowledge by conducting sessions in Faculty Development Program on "Teaching Learning Practices in Structural Analysis".

Your knowledge and excellent delivery of sessions was very well received by participants. The information in your training sessions and the additional references you have provided were both fascinating and timely. These FDP sessions were really informative. Anticipating same kind of cooperation in future.

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Convener and HOD, Civil Engineering





ZES's

Zeal College of Engineering and Research, Pune

Department of Civil Engineering

**FACULTY DEVELOPMENT PROGRAM**

**"Teaching Learning Practices in Structural Analysis"**

Dated on -7/6/ 2017

**Speaker Information**

Dr. K. Gopi Krishna,



Designation-

Assistant Professor,  
NIT, Warangal

Education Qualification-

Ph.D Earthquake Engineering, Indian Institute of Technology, Roorkee

Total Experience-

10 years

**Content Deliver Session wise-**

<b>Time</b>	<b>Session</b>	<b>Content Deliver</b>
10 am to 12.00 noon	1st Session	Analysis of indeterminate beam by Clapeyron theorem, strain energy and by Castiglianos theorem.
1.00 pm to 3.00 pm	2nd Session	Analysis of truss by Castiglianos 1 <sup>st</sup> and 2 <sup>nd</sup> theorems for lack of fit, sinking of support and temperature changes. (Indeterminacy up to second degree )
3.15 pm to 5.15 pm	3rd Session	Influence line diagrams and it's analysis for beam & truss.



# Dr. K. Gopi Krishna

Assistant Professor

Department of Civil Engineering

National Institute of Technology, Warangal - 506004, Telangana, INDIA

: kgopi@nitw.ac.in

: 08702462150

## Interests:

### Primary Research Interests:

Wavelet Finite Element Methods, Computational Structural Dynamics, Multi-scale Modeling, Earthquake Engineering.

### Education:

PhD., Earthquake Engineering, Indian Institute of Technology, Roorkee [2008].

MTech., Industrial Structures, SJCE, Mysore, VTU [2000].

BE., Civil Engineering, Osmania University [1998].

### Professional Experience:

**Senior Engineer (Design & Development), Scientific Computing group, Visual computing Labs, TATA-Elxsi, Bangalore [June 2000-August 2002]**

1. Algorithmic development in C/C++ on SUN SOLARIS/HP UX

**Engineer (Aviation, GE Research), GE-India Technology center,**

**(John.F.Welch.Technology Center (JFWTC)), WhiteField, Bangalore [December 20007-October 2009]**

1. Dynamic analysis of Aircraft Engine Components using FEA

**Assistant Professor [December 2009-May 2012]**

Department of Civil Engineering,

Birla Institute of Technology & Science-Pilani, Hyderabad Campus,

Jawaharnagar, Shameerpet Mandal, Ranga Reddy district, Hyderabad.

**Assistant Professor [June 2012- Till date]**

Department of Civil Engineering,

National Institute of Technology, Warangal,

Warangal.

### Publications:

1. K. Gopikrishna, Manish Shrikhande, (2011) "Wavelet basis finite element solution of structural dynamics problems", Engineering Computations, Vol. 28(3), pp.275 €– 286. (Impact Factor 1.214).
2. K.GopiKrishna and Amirtham .R.(2010) €œEnriched Wavelet Galerkin Method for Dynamic Fracture € , in proceedings of the 5th International Conference on Theoretical,Applied,Computational and Experimental Mechanics(ICTACEM-2010),December, 27-29 ,IIT Kharagpur,India.
3. K. GopiKrishna and Manish Shrikhande (2006) €œWavelet Basis Finite Element Method For Solution of Engineering Problems € , In Proceedings of the 2nd International Congress on Computational Mechanics and Simulation (ICCMS-06), December 8-10, IIT Guwahati, India.

### **Chapters in Books:**

1. **Gopikrishna, K.** and Shrikhande, M. Wavelet basis finite element solution for transient problems. In N.K. Gupta and A.V. Manzhurov, editors, *Topical Problems in Solid Mechanics*, pages 222-234. Elite Publishing House Pvt. Ltd., New Delhi, 2008.

### **Book/Monograph:**

- **Gopikrishna, K.**, Wavelet basis Finite Element Approach for Structural Dynamics problems, **ISBN-10: 3844393048 ISBN-13: 978-3844393040**, LAP LAMBERT Academic Publishing (June 14, 2011).

### **Memberships:**

1. Life Member of Indian Society of Earthquake Technology (ISET)
2. Life Member of Indian Concrete Institute (ICI).
3. Life Member of Indian Society of Wind Engineering (ISWE).

### **Invited Talks**

"Wavelet Based Finite Element Methods" at Workshop on Earthquake Engineering for Teachers at Indian Institute of Technology Roorkee, during 18 -19 August, 2006, Roorkee, India.

### **Courses Taught/Teaching**

1. Finite Element Method
2. Structural Dynamics
3. Mechanics of solids
4. Engineering Mechanics

### **Sponsored Research and Consultancy**

Fragility analysis of RC Buildings-A measure of Seismic Performance (January 2012 onwards), NIT Warangal, under Startup Research Grant Program

### **AWARDS/HONOURS/**

1. Certified six sigma GE greenbelt holder-2009
2. Scholarship for postgraduate studies in engineering (GATE-1998) Ministry of Human Resources development, Government of India
3. Scholarship for pursuing PhD programme in Engineering (2003-2007) Ministry of Human Resources development, Government of India

### **Workshops/Conferences organized**

1. Associated in organizing workshop on Earthquake Engineering for Teachers (NPEEE), organized at Dept. Of Earthquake Engineering, Indian Institute of Technology, Roorkee, during 18-19 August 2006, Roorkee, India.
2. Associated in organizing 13<sup>th</sup> Symposium on Earthquake Engineering, Indian Institute of Technology Roorkee, 18-20 December 2006, Roorkee, India.
3. Associated in organizing a National Level Conference on Green Building Practices and its Impact on Economic performance at Birla Institute of Technology & Sciences (BITS-Pilani), Hyderabad Campus, 23<sup>rd</sup> October, 2010, Hyderabad, India.

### *Short term Courses/Workshops/Conferences Participated*

1. Workshop on Retrofitting of Structures, Indian Institute of Technology Roorkee, 10-11 October 2003, Roorkee, India.
2. Workshop on Automation of Structural and Earthquake Engineering - New Advances in Numerical Methods, Computers and Structures Inc. (CSI), 19 April 2005, New Delhi, India
3. 2<sup>nd</sup> International Congress on Computational mechanics and Simulation (ICCMS-06) during 8- 10 December, 2006 at Indian Institute of Technology, Guwahati, India.
4. 6<sup>th</sup> Symposium of National Frontiers of Engineering (NATFOE),2011 during 2- 3 September, 2011 at Indian Institute of Technology, Hyderabad, India.
5. Workshop on Teaching and Learning for Excellence at National Institute of Technology, Warangal from 17-19 July, 2012, Warangal, India.
6. NPTEL Workshop on Technology Enhanced Learning organized at National Institute of Technology, Warangal from 31<sup>st</sup> August to 01<sup>st</sup> September, 2012, Warangal, India.
7. A Workshop on AKASH for Education at National Institute of Technology, Warangal in collaboration with Indian institute of Technology, Bombay during 10- 11 November, 2012.
8. The advanced course on Uncertainty Handling in Structural Engineering organised by CSIR-Structural Engineering Research Centre during 30<sup>th</sup> January - 1<sup>st</sup> February 2013.
9. Faculty Development Programme on Teaching-Learning methods organized by Teaching and Learning Center, Indian Institute Of Technology, Madras during 11 -13 July, 2013.
10. A faculty development programme on Teaching and Evaluation Methods for Effective Learning organised by National Institute of Technology, Warangal from 15 - 17 July, 2013.

### *Additional Positions Held*

1. Committee Member for establishment of Civil Engineering Software laboratory in Department of Civil Engineering, NIT Warangal, 25th July 2012 to 25th July 2013.
2. Faculty member Associated with Project Engineers (PE) office for assisting in monitoring the ongoing and newly coming up CPWD civil works in NITW campus from 2nd November 2012.
3. Faculty Incharge for Civil engineering Department Computer Lab from 18<sup>th</sup> September 2013.



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ZCOER/Civil/Admin/17-18/03

Date: 22/05/2017

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To,  
Dr. Sandeep Chaudhary  
Associate Professor,  
IIT, Indore

**Sub: Invitation as a Guest Speaker for Faculty Development Program on "Teaching Learning Practices in Structural Analysis" during June 06-10, 2017.**

Dear Sir,

Greetings from ZCOER, Pune!

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This FDP aims to shapeup teaching learning practices and to groom the faculty members about effective content delivery concerned to structural analysis subjects. The participants are faculty members from various engineering institutes.

We would like to invite you for this Faculty Development Program as a Guest Speaker for the sessions on "Concept of finite element and plastic analysis" on June 8, 2017.

You are requested to kindly accept our invitation and grace this Event. Looking forward for your favorable response.

Thanking you,  
Yours sincerely,

  
Dr. P. P. Walvekar  
Convener and HOD, Civil Engineering



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ZCOER/civil/Admin/17-18/09

Date: 08/06/2017

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Prof. P. K. Navale

To,  
Dr. Sandeep Chaudhary  
Associate Professor,  
IIT, Indore

Dear Sir/Madam,

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Convener and HOD, Civil Engineering



ZES's  
Zeal College of Engineering and Research, Pune  
Department of Civil Engineering

FACULTY DEVELOPMENT PROGRAM

"Teaching Learning Practices in Structural Analysis"

Dated on -8/6/ 2017

Speaker Information

Dr. Sandeep Chaudhary,



Designation-

Associate Professor,  
IIT, Indore,

Education Qualification-

Ph.D Earthquake Engineering, Indian Institute of Technology, Roorkee  
Steel Concrete Composite Structures

Research Interests:

- Microstructure and Durability of Concrete
- Advanced Characterization Techniques for Building Materials
- Service load behavior of Structures
- Finite Element Analysis

Content Deliver Session wise-

Time	Session	Content Deliver
10 am to 12.00 noon	1st Session	Plastic analysis for steel structures.
1.00 pm to 3.00 pm	2nd Session	Finite difference Method
3.15 pm to 5.15 pm	3rd Session	Finite element method





ZEAL EDUCATION SOCIETY'S

# ZEAL COLLEGE OF ENGINEERING AND RESEARCH

(Formerly Dnyanganga College of Engineering and Research)

(Approved by AICTE, New Delhi and Affiliated to Savitribai Phule Pune University, Pune)

B. No. 38, Narhe, | PUNE - 411 041 | INDIA - Phone No. 020-6720 6000/104 Tele Fax. 020-6720 6101

E-mail: principal.zcoer@zealeducation.com, Website: www.zcoer.org

Hon. S. M. Katkar  
B.A. (Hons), L.L.B.  
FOUNDER DIRECTOR

Dr. A. M. Kate  
M.E., Ph. D (Mech)  
PRINCIPAL

Date: 22/05/2017

ZCOER/Civil/Admin/17-18/04

## CHIEF PATRON

Hon. Shri. S. M. Katkar  
Founder Director  
Zeal Education Society, Pune

Hon. Prof. J. S. Katkar  
Executive Director  
Zeal Education Society, Pune

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HOD, Civil Engineering  
ZCOER, Pune.

## Coordinator

Mrs. S. S. Patil  
Assistant Professor  
Department of Civil Engineering  
ZCOER, Pune.

## Organizing Committee

Prof. N. N. Deo  
Prof. G. S. Anaokar  
Prof. A. D. Kulkarni  
Prof. T. N. Kulkarni  
Prof. M. G. Mohite  
Prof. A. S. Mahajan  
Prof. A. N. Sanadi  
Prof. A. K. Chorage  
Prof. A. R. Bansode  
Prof. P. K. Navale

To,  
Dr. M. R. Shiyekar  
Adjunct Professor,  
Govt. College of Engg. Karad

Sub: Invitation as a Guest Speaker for Faculty Development Program on  
"Teaching Learning Practices in Structural Analysis" during June 06-10, 2017.

Dear Sir,

Greetings from ZCOER, Pune!

Zeal College of Engineering and Research (ZCOER), Narhe, Pune (Maharashtra) established in the year 1996, offers six undergraduate courses in Civil Engineering, Computer Engineering, Electrical Engineering, Electronics & Telecommunication Engineering, Information Technology and Mechanical Engineering. The Post graduate courses offered are Computer Engineering, Power Systems, VLSI & Embedded Systems and Mechanical Engineering (Design Engineering and Computer Aided Design and Manufacturing Engineering). We also offer MBA courses. The College is approved Research Center for PhD and Research Studies in Mechanical and Electronics & Telecommunication Engineering.

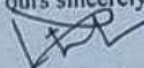
Department of Civil Engineering of Zeal College of Engineering and Research, Pune has planned to organize a FDP on "Teaching Learning Practices in Structural Analysis" during June 6-10, 2017 at our Narhe campus, Pune.

This FDP aims to shapeup teaching learning practices and to groom the faculty members about effective content delivery concerned to structural analysis subjects. The participants are faculty members from various engineering institutes.

We would like to invite you for this Faculty Development Program as a Guest Speaker for the sessions on "Failure theories of steel sections and analysis of steel connections" on June 9, 2017.

You are requested to kindly accept our invitation and grace this Event.  
Looking forward for your favorable response.

Thanking you,  
Yours sincerely,

  
Dr. P. P. Walvekar  
Convener and HOD, Civil Engineering





ZEAL EDUCATION SOCIETY'S

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FOUNDER DIRECTOR

Dr. A. M. Kate  
M. E., Ph. D (Mech)  
PRINCIPAL

ZCOER/Civil/Admin/17-18/104

Date: 09/06/2017

## CHIEF PATRON

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Founder Director  
Zeal Education Society, Pune

Hon. Prof. J. S. Katkar  
Executive Director  
Zeal Education Society, Pune

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ZCOER, Pune.

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Assistant Professor  
Department of Civil Engineering  
ZCOER, Pune.

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Prof. A. S. Mahajan  
Prof. A. N. Sanadi  
Prof. A. K. Chorage  
Prof. A. R. Bansode  
Prof. P. K. Navale

To,  
Dr. M. R. Shiyekar  
Adjunct Professor,  
Govt. College of Engg. Karad

Dear Sir/Madam,

It is pleasure to express deep gratitude for you being here in Department of Civil Engineering, Zeal College of Engineering and Research, Pune and devoting your valuable time and knowledge by conducting sessions in Faculty Development Program on "Teaching Learning Practices in Structural Analysis".

Your knowledge and excellent delivery of sessions was very well received by participants. The information in your training sessions and the additional references you have provided were both fascinating and timely. These FDP sessions were really informative. Anticipating same kind of cooperation in future.

Thanking you,  
Yours sincerely,

Dr. P. P. Walvekar  
Convener and HOD, Civil Engineering



**ZES's**  
**Zeal College of Engineering and Research, Pune**  
**Department of Civil Engineering**

**FACULTY DEVELOPMENT PROGRAM**

**"Teaching Learning Practices in Structural Analysis"**

**Dated on -9/6/ 2017**

**Speaker Information**

**Dr. M R Shiyekar**



**Designation-**

Professor  
Adjunct faculty Walchand College of Engineering, Sangli.,

**Education Qualification-**

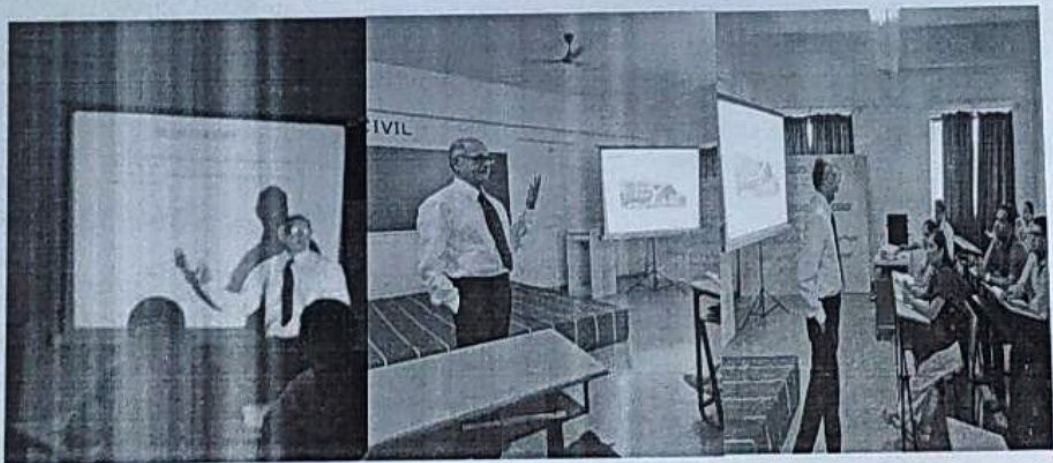
Ph.D

**Teaching Experience-**

52 Years

**Content Deliver Session wise-**

<b>Time</b>	<b>Session</b>	<b>Content Deliver</b>
10 am to 12.00 noon	1st Session	Failure theories of Steel Beams/Column
1.00 pm to 3.00 pm	2nd Session	Torsional analysis of Beams and Analysis of Steel
3.15 pm to 5.15 pm	3rd Session	Connections for Axial, Shear, Bending and Torsion individually and Combined





ZEAL EDUCATION SOCIETY'S

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FOUNDER DIRECTOR

Dr. A. M. Kate

M.E., Ph.D. (Mech.)

PRINCIPAL

Date: 22/05/2017

ZCOER/Civil/Admin/17-18/06

## CHIEF PATRON

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Zeal Education Society, Pune

Hon. Prof. J. S. Katkar  
Executive Director  
Zeal Education Society, Pune

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Dr. A. M. Kate  
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## Convener

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ZCOER, Pune.

## Coordinator

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Assistant Professor  
Department of Civil Engineering  
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Prof. A. S. Mahajan  
Prof. A. N. Sanadi  
Prof. A. K. Chorage  
Prof. A. R. Bansode  
Prof. P. K. Navale

To,  
Er. Prashant Patil  
Director  
Apex Consultant, Pune

**Sub: Invitation as a Guest Speaker for Faculty Development Program on "Teaching Learning Practices in Structural Analysis" during June 06-10, 2017.**

Dear Sir,

Greetings from ZCOER, Pune!

Zeal College of Engineering and Research (ZCOER), Narhe, Pune (Maharashtra) established in the year 1996, offers six undergraduate courses in Civil Engineering, Computer Engineering, Electrical Engineering, Electronics & Telecommunication Engineering, Information Technology and Mechanical Engineering. The Post graduate courses offered are Computer Engineering, Power Systems, VLSI & Embedded Systems and Mechanical Engineering (Design Engineering and Computer Aided Design and Manufacturing Engineering). We also offer MBA courses. The College is approved Research Center for PhD and Research Studies in Mechanical and Electronics & Telecommunication Engineering.

Department of Civil Engineering of Zeal College of Engineering and Research, Pune has planned to organize a FDP on "Teaching Learning Practices in Structural Analysis" during June 6-10, 2017 at our Narhe campus, Pune.

This FDP aims to shapeup teaching learning practices and to groom the faculty members about effective content delivery concerned to structural analysis subjects. The participants are faculty members from various engineering institutes.

We would like to invite you for this Faculty Development Program as a Guest Speaker for the sessions on "Computer applications of Structural Analysis" on June 10, 2017.

You are requested to kindly accept our invitation and grace this Event. Looking forward for your favorable response.

Thanking you,  
Yours sincerely,

Dr. P. P. Walvekar  
Convener and HOD, Civil Engineering



ZEAL EDUCATION SOCIETY'S

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Hon. S. M. Katkar

B.A. (Hons), LL.B.

FOUNDER DIRECTOR

Dr. A. M. Kate

M. E., Ph. D (Mech.)

PRINCIPAL

ZCOER/Civil/Admin/17-18/11

Date: 10/06/2017

## CHIEF PATRON

Hon. Shri. S. M. Katkar

Founder Director

Zeal Education Society, Pune

Hon. Prof. J. S. Katkar

Executive Director

Zeal Education Society, Pune

## PATRON

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Director, ZES, Pune

Dr. A. M. Kate

Principal, ZCOER, Pune

## Convener

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HOD, Civil Engineering

ZCOER, Pune.

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Assistant Professor

Department of Civil Engineering

ZCOER, Pune.

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Prof. A. K. Chorage

Prof. A. R. Bansode

Prof. P. K. Navale

To,

Er. Prashant Patil

Director

Apex Consultant, Pune

Dear Sir/Madam,

It is pleasure to express deep gratitude for you being here in Department of Civil Engineering, Zeal College of Engineering and Research, Pune and devoting your valuable time and knowledge by conducting sessions in Faculty Development Program on "Teaching Learning Practices in Structural Analysis".

Your knowledge and excellent delivery of sessions was very well received by participants. The information in your training sessions and the additional references you have provided were both fascinating and timely. These FDP sessions were really informative. Anticipating same kind of cooperation in future.

Thanking you,

Yours sincerely,

Dr. P. P. Walvekar

Convener and HOD, Civil Engineering



ZES's

Zeal College of Engineering and Research, Pune  
Department of Civil Engineering

FACULTY DEVELOPMENT PROGRAM

"Teaching Learning Practices in Structural Analysis"

Dated on -10/6/ 2017

Speaker Information

Er. Prashant Patil



Designation-

Director, Apex consultant, Pune.,

Education Qualification-

ME Structural Engineering

Teaching Experience

6 Years

Computer Knowledge

1. STAAD-PRO.
2. ANSYS.14 WORKBENCH
3. MECHANICAL APDL
4. SAP 2000
5. BUILDING INFORMATION MODELLING
6. ETABS
7. AUTOCAD

Content Deliver Session wise-

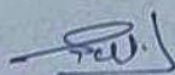
Time	Session	Content Deliver
10 am to 12.00 noon	1st Session	Software application of Structural Analysis
1.00 pm to 3.00 pm	2nd Session	Software application of Structural Analysis
3.15 pm to 5.15 pm	3rd Session	Software application of Structural Analysis
5.15 pm to 6 pm		Valedictory function and Certificate Distribution

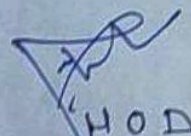


ZEAL EDUCATION SOCIETY'S  
**ZEAL COLLEGE OF ENGINEERING AND RESEARCH,**  
 NARHE PUNE - 41 INDIA  
**Department of Civil Engineering**  
**Faculty Development Program**  
**(Teaching Learning Practices in Structural Analysis)**

Date	Time	Activity	Content	Expert
6/6/2017	9 am to 10 am	Tea & Snacks		Dr. M. R. Wakchaure, Professor, Amrutwahini College of Engineering, Sangamner
	10.00 am to 12.00 am	Inaugural function		
		Ist Session	Fundamentals of physics and Mechanics	
		2nd Session	Stress & strain evaluation in determinate and indeterminate Sections	
	12.00 noon to 1.00 pm	Lunch Break		
	1:00 pm to 3:00 pm	3rd Session	Stress & strain evaluation in composite and homogeneous sections	
	3:00 pm to 3:15 pm	Tea Break		
3:15 pm to 5:15 pm	4th Session	Shear and bending analysis		
7/6/2017	9 am to 10 am	Tea & Snacks		Dr. K. Gopi Krishna, Assistant Prof. NIT, Warangal
	10 am to 12.00 noon	Ist Session	Analysis of indeterminate beam by Clapeyron theorem, strain energy and by Castiglianos theorem.	
	12.00 noon to 1.00 pm	Lunch Break		
	1.00 pm to 3.00 pm	2nd Session	Analysis of truss by Castiglianos 1 <sup>st</sup> and 2nd theorems for lack of fit, sinking of support and temperature changes. (Indeterminacy up to second degree )	
	3.00 pm to 3.15 pm	Tea Break		
3.15 pm to 5.15 pm	3rd Session	Influence line diagrams and it's analysis for beam & truss.		
8/6/2017	9 am to 10 am	Tea & Snacks		Dr. Sandeep Chaudhary, Associate Prof. IIT,
	10 am to	Ist	Plastic analysis for steel	

	12.00 noon	Session	structures,	Indore
	12.00 noon to 1.00 pm	Lunch Break		
	1.00 pm to 3.00 pm	2nd Session	Finite difference Method	
	3.00 pm to 3.15 pm	Tea Break		
	3.15 pm to 5.15 pm	3rd Session	Finite element method	
9/6/2017	9 am to 10 am	Tea & Snacks		Prof. M R Shiyekar Adjunct Faculty Govt. College of Engineering, Karad
	10 am to 12.00 noon	1st Session	Failure theories of Steel Beams/Column	
	12.00 noon to 1.00 pm	Lunch Break		
	1.00 pm to 3.00 pm	2nd Session	Torsional analysis of Beams and Analysis of Steel	
	3.00 pm to 3.15 pm	Tea Break		
	3.15 pm to 5.15 pm	3rd Session	Connections for Axial, Shear, Bending and Torsion individually and Combined	
10/6/2017	9 am to 10 am	Tea & Snacks		Er. Prashant Patil Director, Apex consultant, Pune
	10 am to 12.00 noon	1st Session	Software application of Structural Analysis	
	12.00 noon to 1.00 pm	Lunch Break		
	1.00 pm to 3.00 pm	2nd Session	Software application of Structural Analysis	
	3.00 pm to 3.15 pm	Tea Break		
	3.15 pm to 5.15 pm	3rd Session	Software application of Structural Analysis	

  
co-ordinator

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

Zeal Education Society's  
Zeal College of Engineering & Research, Narhe, Pune 41  
Department of Civil Engineering  
Faculty Development Programme in Civil Engineering Department  
Teaching Learning Practices in Structural Analysis

Registration sheet

Date - 06/06/2017

Sr.No	Name of Participant	Name of College	Contact no	Email ID	Reg. Fee	ISTE Membersh ip No	Signature
1	Mrunmyee .N. Deshpande	Zeal Polytechnic	9850017941	mrunmyee.deshpande@zeal.education.com	1000/-		
2	Katke P. B	— u —	8638686353	Pranod . Katke @ zeal.education.com	1000/-		
3	Sangram . K. Patil	SCOE	8552911110	sangram1382@gmail.com	1000/-		
4	Prashant . C. Munde	SCOE	865246430	Pcmunde.scoe@sinhgad.edu	1000/-		
5	Rohit D. Mangalekar	SCOE	7709878553	rdmangalekar.scoe@sinhgad.edu	1000/-		
6	Sitaran G. Suryawanshi	RMDSSOE	9975926210	Sgsvit@gmail.com	1000/-		
7	Sarita R. Khot	— u —	9881674241	sarita.khot@sinhgad.edu	1000/-		
8	Sumit R. Thakur	— u —	9561046860	sumit.thakur@sinhgad.edu	1000/-		
9	Manali D. Borgave	Zeal Polytechnic	9404412321	manali.borgave@zeal.education.com	1000/-		
10	Pallavi S. Porande	MIT-COE	9527713919	pallaviporande1904@gmail.com	1000/-	LM 114614	
11	<del>Audumber Lonche</del>	<del>SKA COE</del>	<del>9545553661</del>	<del>audumber.lonche@gmail.com</del>	<del>1000/-</del>		<del></del>
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


Zeal Education Society's  
 Zeal College of Engineering & Research, Narhe, Pune 41  
 Department of Civil Engineering  
 Faculty Development Programme in Civil Engineering Department  
 Teaching Learning Practices in Structural Analysis  
 Registration sheet

Date - 06/06/2017

Sr.No	Name of Participant	Name of College	Contact no	Email ID	Reg. Fee	ISTE Membership No	Signature
11.	Patil Vanishri A	D.V. PBT Pimpri	9091257017	patilvanishri039@gmail.com	1000/-	-	
12.	Vikhe N. A	S.S.I.E.R.A.S. <sup>Panvel</sup>	9790151745	nikhil9646@gmail.com	1000/-	-	Nisa
13.	Sathe. S.S	MIT, Pune	9028565307	sathe.sandipss@gmail.com	1000/-	LM115275	
14.	Basde S.A	P.T.C.T, Pune	8805163678	Subarade@pict.edu	1000/-	-	
15.	Sinha Bhende	Sinhgad Pune	9166380604	bhude.snda@gmail.com	1000/-	-	
16.	R.R. Sorate	S.A.A.E. Korhda	9890518916		1000/-	-	
17.	Prof. Akshay Bura	VIIT, Pune	8888605960	akshay.bura@viit.ac.in	1000/-	-	
18.	Madhavi Bore	ICEM, Parandwad	9420015870	madhuvikakad.bore@gmail.com	1000/-	-	
19.	Kamble Prajakta	ICEM, Parandwad	8551998570	prajakta.pkamble@gmail.com	1000/-	-	
20.	SANDEEP HANI	PCCOER	7588687270	sandipwani1984@yahoo.co.in	1000/-	LM 105021	
21.	DINESH W. GAHATRE	SAE Korhda	9075769911	dugawate.sae@sinhgad.edu	1000/-	LM	
22.	Gayatri N. Mawale	AISSMS IOTI Pune	9764535258	gayatri.mawale@aisssmsiit.org	1000/-	-	

**Zeal Education Society's**  
**Zeal College of Engineering & Research, Narhe, Pune 41**  
**Department of Civil Engineering**  
**Faculty Development Programme in Civil Engineering Department**  
**Teaching Learning Practices in Structural Analysis**  
**Registration sheet**

Date - 06/06/2017

Sr.No	Name of Participant	Name of College	Contact no	Email ID	Reg. Fee	ISTE Membership No	Signature
23	<sup>Pathan</sup> Afiya. N. Khan	AISSMS - IOIT Pune	9960053721	n.square.20@yahoo.in	1000/-	-	
24	Shilaryas N. Ramteke	S.C.OE Vadgaon	8237589004	snramteke.scoe@sinhgad.edu	1000/-	-	
25	Manisha M. Magdum	SCOE, Vadgaon	7709878553	felmmagdum.scoe@sinhgad.edu	1000/-	-	



ZEAL EDUCATION SOCIETY'S  
ZEAL COLLEGE OF ENGINEERING AND RESEARCH  
NARHE, PUNE -41  
Department of Civil Engineering

Date 12/09/17

**ONE DAY SKILL BUILDING WORKSHOP ON BEST  
CONCRETING PRACTICES**  
In association with  
**UltraTech Cements Limited**



One day skill building workshop on best concreting practices in association with Ultratech Cements limited, was organized on 12<sup>th</sup> September 2017. 58 students were benefitted by this workshop.

**Objectives:**

1. To make aware students for best concreting practices under the supervision of experts from industry.
2. To have an experience of concreting with standard norms.

**Code of Conduct:**

A proposal from Ultratech was there to organize One day skill building workshop on best concreting practices. The major theme was to make students aware about best concreting practices under the supervision of experts from industry.

Workshop started by 10.30am in CSM auditorium. Hon Principal, ZCOER was in chair. Earlier Prof N. N. Deo had introduced the theme of workshop. Head of Department: Dr. P. P. Walvekar felicitated to Ultratech team.

In session I; a seminar regarding best concreting practices was delivered from Mr. Mahesh Koli; Technical head Ultratech Cements limited. He shared few valuable videos with students regarding advanced concreting.

In Session II; a practical sessions regarding concrete material selection, Specifications, Mixing and casting was carried out. Few tests on fresh concrete were obtained and discussed well with students. An importance was given to IS codes to be referred while concreting, recent concreting material s available in market etc.



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

**Department of Civil Engineering**

In the evening after tea break a concluding session was arranged where students interacted well with these industry persons. This was a peak of the workshop where students eagour to discuss lots of queries about practical difficulty in best concerting practices. At last Faculty coordinator Prof. A. V. Wakchaure; thanked to Ultratech Cements limited concluded the sessions.

**Outcomes:**

1. Students made aware about best concerting practices.
2. Students were groomed regarding need of structural stability and concerting.
3. Students could interact well with industry persons.



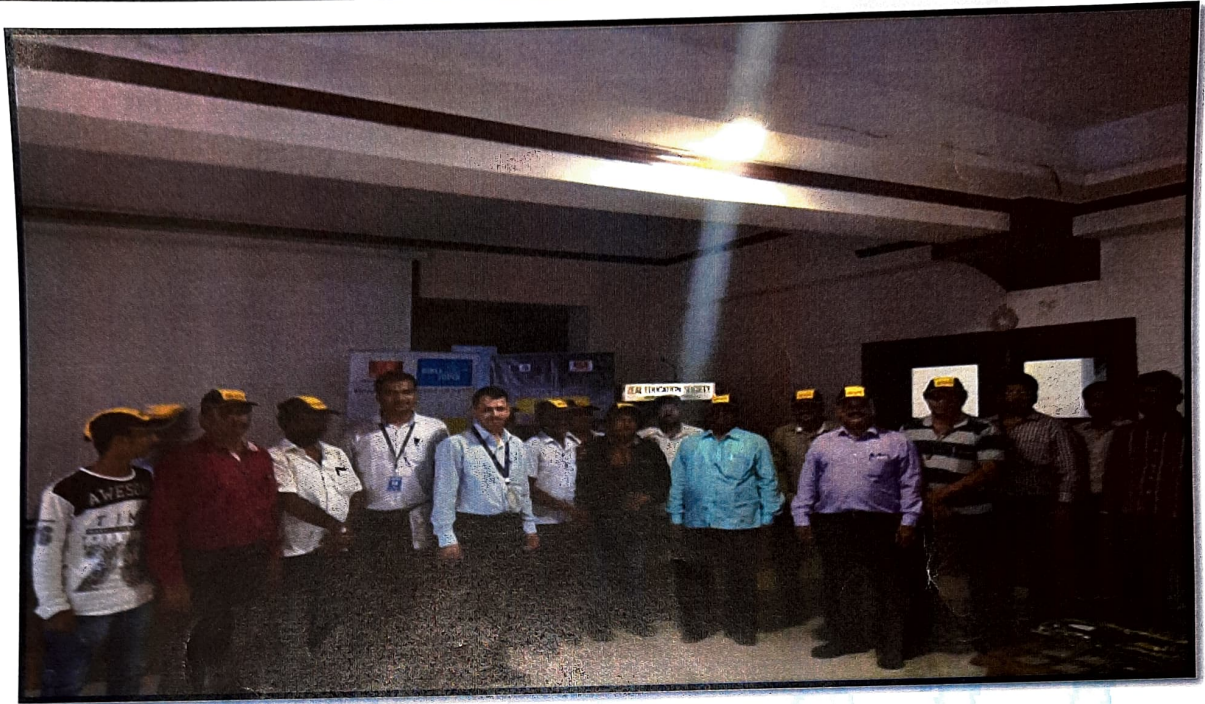


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ZEAL COLLEGE OF ENGINEERING AND RESEARCH  
NARHE, PUNE -41  
Department of Civil Engineering**





**ZEAL EDUCATION SOCIETY'S  
ZEAL COLLEGE OF ENGINEERING AND RESEARCH  
NARHE, PUNE -41  
Department of Civil Engineering**



Workshop coordinator.

HOD  
civil department



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

**Department of Civil Engineering**

Date: 02/09/2017

To,  
The Principal  
ZCOER, Narhe  
Pune-041.

**Subject: Permission to organize the skill building workshop in association with UltraTech  
Cements Ltd.**

Respected Sir,

With reference to above mentioned subject, we have received an appeal to arrange the **Contractors Skill building workshop from UltraTech Cements Ltd.** The workshop is scheduled on **12/09/2017.**

The purpose of this workshop is to enhance the knowledge of good concreting practices among the contractors and to build safe and strong constructions.


As a organizer we have to make them available our auditorium and Concrete Technology Laboratory. The material will be provided from UltraTech Cements Ltd.


This workshop will be helpful for our students, to learn best concreting practices followed by construction industry and will facilitate the interaction with experts from industry.

Kindly permit for the same.

Thanking You.

Yours Faithfully,

  
Mr. G. S. Anaokar  
Coordinator

  
Dr. P. P. Walvekar  
Head - Dept. Of Civil Engineering



*Permitted  
Ankate  
02/09/2017*

## Proposed Skill building workshop at Zeal college of Engineering on 12.09.2017

mahesh koli <mahesh.koli@adityabirla.com>

Thu, Aug 31, 2017 at 12:33 PM

To: "guruprasad.anaokar@zealeducation.com" <guruprasad.anaokar@zealeducation.com>

Cc: Supreet Singh <supreetsingh.dhadwal@adityabirla.com>, Arpit Golwelkar <arpit.golwelkar@adityabirla.com>, Harsh Shah <harsh.shah@adityabirla.com>

Dear Sir,

We are pleased to inform you that we are planning to conduct Contractors Skill building workshop at Your college on 12.09.2017. Minimum expected participation is 25 nos.

The purpose of the workshop is to enhance the knowledge of good concreting practices among the contractors to build safe and strong constructions. The schedule of the workshop is as follows,

Skill Building Workshop on 12.09.2017 at Zeal College of Engineering, Narhe, Pune			
Sr No	Particulars	Time Slot	Remarks
1	Registration at College	10:30am – 11:00 am	
2	Welcome	11:00 am to 11:15 am	By Zeal Staff
3	<b>Presentation on Good Concreting practices (Level 2)</b>	11.30am to 1.15 pm	By UltraTech Staff
7	Lunch	1:15 pm to 2:15 pm	
8	<b>Practical Demonstrations</b>	2:15 pm to 4:15 pm	Joint demos
9	Vote of Thanks & Conclusion	4:15 pm to 4:30 pm	By UltraTech Staff

9/2/2017, 1:48 PM



Kindly allow us to conduct this Skill Building Workshop at your college.

Regards,

Mahesh Kole

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Zeal Education Society's  
**Zeal College of Engineering & Research**

Central Placement Cell

**Attendance Sheet**

Name of the Company		Ultratech Cement Limited	
Trainer		Mr. Mahesh Kole	
Department		Civil	
Date & Time		12th September, 2017	9.00am to 4.00pm

Sr.No.	Name	Signature	Sr.No.	Name	Signature
1	Gaurav S. Bhongale		31	shinde sanjay Kisan	
2	Kunal K. Shilimkar		32	<del>shinde sanjay Kisan</del>	<del></del>
3	Katunel Manoj D	M.D.K	33	Suryawanshi M. J	
4	Aole Abhishek		34	Tirale Sonali D	
5	Basante Prathic		35	kamble kadambari R	
	Shubham S. Pawar		36	Pragati Rathod	
7	Prasad S. Matkar		37	Roshni Bidri	
8	Mayurish M. Tomhantav		38	Nelcele Snehal	
9	Ganesh S. Mundhe		39	Nehar Burele	
10	Lutthe Abhishek M.		40	Priyanka Bharekar	
11	Akash B. Ingole		41	Sameuddhi Kadu	
12	Deepankar S. Yadav		42	Ayesha Anjun Shinde	
13	Sumit S. More		43	Patil Pulavi Vinod	
14	Sunil S. Suralkar		44	Sarika Sambhaji Tadhar	
15	Rohitkesh B. Jogrup		45	Aniti Sambhaji Kalyankar	
16	Keishra B. Choure		46	Harsha Yeul	
17	Abhishek Nandagore		47	Prachi Ingulkar	
18	Kunal Shinde		48	Priya Banastor	
	Jaibhass Bhagwat		49	Dipali Patil	
20	Somanath Patil		50	Shweta Khandegale	
21	Prathamesh Kadam		51	Komal Khopade	
22	Shivam Nandakumar		52	Memane Siddharth	
23	Verendra Vasave		53	Pankaj Anjun	
24	Abhijeet Tadhar		54	More Abhishek	
25	Omkar Deshmukh		55	Nedant Deshmukh	
26	Telav R. Vambare		56	Swapnil Gaikwad	
27	Drathamesh S. Pote		57	Krushna Tadhar	
28	Swapnil S. Kamthe		58	Manno Akath Sanjay	
29	Khanvijayusen Behn Sharm		59		
30	Mate Rohan Ravindra		60		



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

DEPARTMENT OF TRAINING & PLACEMENT

Feedback Form

Date: 12/09/2017

**Personal Details of Guest Speaker**

Name of the Speaker: Maresh Kole  
Name of the Company: UltraTech Cement Ltd.  
Designation: Asst Manager - Tech. Services  
Contact Details: 9881735617  
(Mob & Mail ID): maresh.koli@adityabirla.com  
Topic of Lecture: Good concreting Practices

**Feedback**

- 1) Students Performance: Good
- 2) Area of Improvement for Students: More participation
- 3) Topic suggested for future lectures:
- 4) Infrastructure: Very Good
- 5) Hospitality: Excellent

Remarks if any: Very good co-operation from all the staff for conducting lecture

Contact details of the company for campus recruitment through your reference:

Name of the Company \_\_\_\_\_  
Contact Person \_\_\_\_\_  
Mobile & Mail ID \_\_\_\_\_

[Signature]

Signature

Zeal Education Society's  
**Zeal College of Engineering & Research**  
 Central Placement Cell

**Attendance Sheet**

Name of the Company	Ultratech Cement Limited		
Trainer	Mr. Mahesh Kole		
Department	Civil	Class and Batch	
Date & Time	12th September, 2017	9.00am to 4.00pm	

Sr.No.	Name	Signature	Sr.No.	Name	Signature
1	Kunal K. Shilimkar		31	Shinde Sanjay Kisan	
2	Ganesh G. Mundhe		32	Keishna B. Choure	
3	Mayurish M. Tambantrar		33	Momolik Kusma	
4	Prasad S. Matole		34	Katekaramonaj	
5	Shubham S. Pawar		35	Goite Abhisit	
	Ruhikesh B. Jayrap		36	Basate Pratik	
7	Suryaj S. Suralkar		37	Patil Pallavi Vinayak	
8	Sumit S. More		38	Ayusha Arjun Shinde	
9	Deepankar S. Yadav		39	Sarika Sambhaji Jadhav	
10	Akash B. Jogole		40	Arti Sambhaji Kalyankar	
11	Abhishek M. Lathke		41	Hausa Yell	
12	Memare Siddhant R		42	Prachi Anil Ingulkar	
13	More Abhishek		43	Priya Vijay Bavaskar	
14	Arjun Pankaj		44	Dipali Anvind Patil	
15	Prathamesh Kadam		45	Shweta Sanjay Chaudhary	
16	Comnath Pawar		46	Komal Mahesh Chhapade	
17	Abhishek Nanaware		47	Bhyanika D. Bharekar	
18	ARHJEEET JADHAV		48	Snehal Kelkar	
	Kunal D. Shinde		49	Neha Burele	
20	Ualbhav Bhagwanat		50	Samruddhi Kadu	
21	Nondalwars Shivam		51	Rashmi R. Bidli	
22	Vasave Virendra J		52	Pragati Rathod	
23	Omkar Deshmukh		53	Kadmbasi R. Kamble	
24	Tejas R. Vambere		54	Sonali D. Tivale	
25	Prathamesh S. Pote		55	Vedant Deshmukh	
26	Swapnil Kamthe		56	Swapnil Chakwad	
27	Khawajabhai Babu Shinde		57	Akash Marne	
28	Mate Rohan Ravindra		58	Krushna Jadhav	
29	Shinde Kunal Dattatraya		59		
30	Suryawanshi M. J		60		

अल्ट्राटेक सिमेंट लिमिटेड  
झील कॉलेज ऑफ इंजिनिरिंग अँड रिसर्च, नऱ्हे पुणे  
यांच्या संयुक्त विद्यमाने

## कौशल्य विकास उपक्रम प्रमाणपत्र स्तर-२ (काँक्रीट विषयक मार्गदर्शन शिबिर)

श्री. .... यांस

अल्ट्राटेक सिमेंट लिमिटेड व झील कॉलेज ऑफ इंजिनिरिंग अँड रिसर्च, नऱ्हे पुणे यांच्या संयुक्त विद्यमाने आयोजित एक दिवसीय कार्यशाळा दिनांक १२/९/२०१७ रोजी पूर्ण केल्याबद्दल हे स्तर - २ चे प्रमाणपत्र देण्यात येत आहे. या स्तर - २ कार्यशाळेत यांनी खालील विषयांबाबत प्रशिक्षण घेतले.

- १) टिकाऊ व मजबूत काँक्रीट साठी लागणारे आवश्यक घटक - उत्कृष्ट दर्जाची वाळू, खडी, सिमेंट, पाणी ई.
- २) काँक्रीटीकरण प्रक्रिया - बँचिंग, मिक्सिंग, वाहतूक, प्लेसिंग, खाचणे, फिनिशिंग व क्युरिंग.
- ३) कन्स्ट्रक्शन केमिकल चा उपयोग.
- ४) फॉर्मवर्क ची योग्य निवड.
- ५) काँक्रीट चे गुणधर्म व गुणवत्ता चाचणी.
- ६) काँक्रीट चे विविध प्रकार.
- ७) साईट सेफ्टी टिप्स

तसेच त्यांनी वरील विषयांवर साईट प्रात्याक्षिक अनुभवले..

डॉ. प्रल्हाद प्र. वाळवेकर  
विभाग प्रमुख, स्थापत्य अभियंत्रिकी  
झील कॉलेज ऑफ इंजिनिरिंग अँड रिसर्च, नऱ्हे पुणे

डॉ. अजित म. काटे  
प्राचार्य  
झील कॉलेज ऑफ इंजिनिरिंग अँड रिसर्च, नऱ्हे पुणे

सुप्रितसिंग धंडवाल  
प्रांत प्रमुख - तांत्रिक सेवा  
अल्ट्राटेक सिमेंट लिमिटेड

1294



# Certificate



This is to certify that Mr./Ms. Chorage A.K.

has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
" Teaching Learning Practices in Structural Analysis " held during

06/06/2017 to 10/06/2017 Organized by Zeal College of Engineering and Research

Pune, Maharashtra

**Advisor, AICTE**

**Executive Secretary, ISTE**

**Principal**

**Program Coordinator**

"Social Transformation Through Dynamic Education"



Hon'ble Dr. Petengraoji Kadam  
Founder & Chairman, Bharati Vidyapeeth, Pune



**BHARATI VIDYAPEETH'S  
COLLEGE OF ENGINEERING, KOLHAPUR**  
Near Chitranagari, Kolhapur- 416013



Hon'ble Dr. Vishwojeet Kadam  
Secretary, Bharati Vidyapeeth, Pune

**A FACULTY DEVELOPMENT PROGRAMME ON**

**"Application of GIS and Remote Sensing Technology using QGIS"**



*This Certificate has been awarded to*

*Dr./Mr./Ms./Mrs. Abhijit K. Chorage*  
*of ZCOER Pune*

*has successfully completed Two days Faculty Development Programme on*

**"Application of GIS and Remote Sensing Technology using QGIS"**

*held at Bharati Vidyapeeth's College of Engineering, Kolhapur.*

26<sup>th</sup> and 27<sup>th</sup> December 2017

Prof. V. V. Mane & Prof. V. S. Tiware  
Programme Co-ordinator

Prof. V. S. Kadam  
Convener

Dr. V. R. Ghorpade  
Principal, BVCOEK

CERTIFICATE NO : 400644



This is to certify that

***Mr. AJAY RAM BANSODE***

Has successfully completed three weeks training program for  
"STRUCTURAL ANALYSIS AND DESIGN USING STAAD-PRO + MANUAL DESIGN"  
organized by Zeal College Of Engineering & Research, Pune from 8th FEBRUARY 2018 to 18th FEBRUARY 2018  
and is awarded this Certificate by  
APEX CONSULTANT'S "Integrated Civil Software Solutions" Pune



  
DIRECTOR  
APEX CONSULTANT'S  
Integrated Civil Software Solutions, Pune



CERTIFICATE NO : 400638



This is to certify that

***Mr. AJAY RAM BANSODE***

Has successfully completed three weeks training program for  
"STRUCTURAL ANALYSIS AND DESIGN USING Etab + MANUAL DESIGN"  
organized by Zeal College Of Engineering & Research, Pune from 19th FEBRUARY 2018 to 28th FEBRUARY 2018  
and is awarded this Certificate by  
APEX CONSULTANT'S "Integrated Civil Software Solutions" Pune



**DIRECTOR**  
APEX CONSULTANT'S  
Integrated Civil Software Solutions, Pune

1289



# Certificate



This is to certify that Mr./Ms. Bansode A.R.

has successfully completed AICTE-ISTE approved Induction/Refresher Programme  
“ Teaching Learning Practices in Structural Analysis ” held during

05/06/2017 to 10/06/2017 Organized by Zeal College of Engineering and Research

Pune, Maharashtra

**Advisor, AICTE**

**Executive Secretary, ISTE**

**Principal**

**Program Coordinator**

1280



# Certificate



This is to certify that Mr./Ms: Deo N.N.

has successfully completed AICTE-ISTE approved Induction/Refresher Programme

“ Teaching Learning Practices in Structural Analysis ” held during

06/06/2017 to 10/06/2017 Organized by Zeal College of Engineering and Research

Pune, Maharashtra

**Advisor, AICTE**

**Executive Secretary, ISTE**

**Principal**

**Program Coordinator**



Sinhgad Institutes

Sinhgad Technical Education Society's

## RMD Sinhgad School of Engineering

Survey No. 111/1, Pune-Mumbai Bypass Highway, Warje, Pune, Maharashtra 411058



Department of Civil Engineering


### Certificate


This is to certify that


Mr. / Mrs. / Ms. Abhijit Chorage has

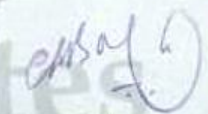
Participated / conducted two days workshop on 'Advanced Surveying Using Total Station' dated 31<sup>st</sup> August

To 1<sup>st</sup> Sept 2017 in association with GALLOP Infra Services Consultancy, Pune by Mr. Rahul Birajdar.

  
Prof. A V Shirgire  
Coordinator

  
Dr. Swati D Ambadkar  
Coordinator

  
Prof. R. D. Shinde  
Head of Department

  
Dr. C.B. Bangal  
Principal / Director