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Amravati (M.S.)

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Vice-President, P. R. Pote (Patil) Education &
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(M.S.)

Hon'ble Dr. S. A. Ladhake
Director, P. R. Pote (Patil) Education & Welfare
Trust's Group of Educational Institutions,
Amravati (M.S.)

General Chair:
Dr. A. V. Kale, Principal, PRPCE&M, Amravati

STTP Convener:
Dr. Mohammad Zuhair Dr. S.S.Saraf

About the Institution

P. R. Pote (Patil) Education & Welfare Trust's Group of Institutions, Amravati is a foremost name in higher Education in Maharashtra. The Group offers UG, PG and doctoral courses in various disciplines of Engineering, Management and Technology. Various courses offered by the Group include BE, ME, Ph.D., MBA, MCA, Polytechnic, B. Arch, B.Ed., B. Pharm., D. Pharm., B.Sc. (Agriculture) and CBSE Schooling. By the blessings of Shri Sant Gajanan Maharaj, we aim at developing a pursuit of knowledge in students, commitment to economic, social & cultural uplifting of masses. The Institute named PRPCE&M highly believes in nurturing ethics and moral values in students. The Institute has dedicated teaching staff, digital classrooms, Wifi campus, finishing school, Placement cell, state-of-art auditorium, well equipped laboratories, and digital library with quality infrastructure.

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Our constant Endeavour is to provide gamut of opportunities for our students to make them skilled engineers, top class managers and also good citizens.

About the Department

The Department of Civil Engineering seeks to combine excellence & discipline in technical education. Developing students for intellectual skill & practical experience that enable them to serve a variety of societal needs, nurtured students to become best professional as project manager, structural designer in industry or become entrepreneur in their own innovative way. The department has a team of dynamic and experienced faculties, whose expertise spans the range of discipline in civil engineering stream, specially known for their excellent team coordination and very healthy work culture for our hard working students. The department is well equipped with latest software's and laboratory equipments. The Department of civil engineering believes in building carrier, enriching minds and provides a remarkable experience that lasts a lifetime.

Objectives of the STTP

The objective of this short term training programme is to focus on the forefront area of structural engineering i.e. structural health monitoring, retrofitting and rehabilitation of structures. The structures deteriorate over a time due to the impact of environmental conditions, excessive loading and improper maintenance. The smart material changes the perspective of structural health monitoring which uses sensors monitoring system. The buildings damaged due to earthquake may be of smaller or moderate magnitude can be reused if retrofitting methods can be used. Retrofitting may prove to be a good alternative rather completely demolishing the structure. Rehabilitation is used in somewhat difference with retrofitting.



ISTE Approved
Short Term Training
Program (STTP)
On



"STRUCTURAL HEALTH MONITORING & RETROFITTING REHABILITATION OF STRUCTURES"

Date: 10th May to 15th May 2021

Organized by

Department of Civil Engineering

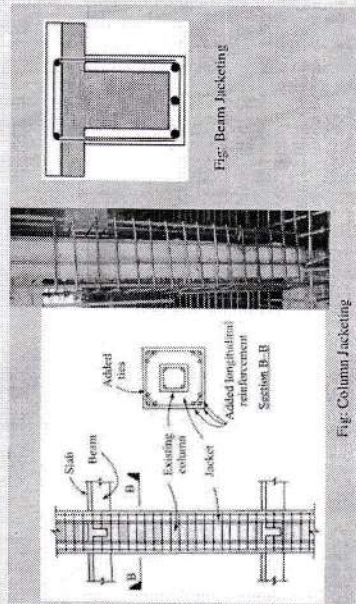


Fig: Beam Jacketing

Fig: Column Jacketing

**P. R. Pote (Patil) Education & Welfare
Trust's Group of Institutions
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Amravati**

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SCBAU, Amravati)

H.O.D. (Civil Dept.)
P. R. Pote (Patil) College of Engg. & Management
Amravati.

Eminent Speaker

- Dr. M.G. Kuntekar, GCOE Karad.
- Dr. P.S. Pajgade, PRMIT&R, Badnera.
- Dr. Ratnesh Kumar, VNIT, Nagpur.
- Dr. S.N. Khante, GCOE, Amravati
- Dr. Mohammad Zuhair, PRPCE&M, Amravati
- Dr. S.S. Saraf, PRPCE&M, Amravati

Topics to be covered

- Importance of Cracks in Building in Structural Health Monitoring
- Seismic Retrofitting of Building Structures
- Seismic Retrofitting – A Case Study
- Structural Health Monitoring Using EMI Technique
- Effect of elevated temperatures on the properties of self compacting concrete
- Rehabilitation of Foundation – A Geotechnical Approach

Registration Process

The Registration is free for all participants. E-Certificate will be issued to participants who will be attending all the sessions including quiz and feedback.

For Registration: Click Below Link

<https://forms.gle/z7oFkqYvx74qSdmx5>


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Mode of Conduction

Online Using Zoom Apps

Vision and Mission of the Institution

Vision of the Institution

"To flourish as a centre of excellence for producing the skilled technocrats and committed human beings"

Mission of the Institution

- To create conducive environment for teaching & learning.
- To impart quality education through demanding academic programs.
- To enhance career opportunities by exposure to Industries & recent technologies.
- To develop professionals with strong ethics and human values for the betterment of Society.

For any queries please contact

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HOD Civil Engineering Department
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Email: sachinsaraf2014@gmail.com

Mr. Nilesh P Bhopale,
Assistant Professor
Mob. No. 9823235374
Email: bhopalenp@gmail.com

Eminent Personality visited and guided



H.O.P. (Civil Dept.)
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3.2.2 - Civil - 2020-2021

!! Shree Gajanan Maharaj Prassana !!

**P. R. Pote (Patil) Education & Welfare Trust's,
College of Engineering & Management,
Kathora Road, Amravati (M. S.)**

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Ph. No. 0721 – 3292969, 3294384 Fax No. 0721- 2530342 E-mail : prpotepatilcollege@gmail.com

Date: 05/05/2021

DEPARTMENT OF CIVIL ENGINEERING

NOTICE


All the faculty members are here by informed that a AICTE-ISTE approved online one week STTP is being conducted on the Topic "Structural Health Monitoring & Retrofitting Rehabilitation of Structures", from 10thMay-15thMay 2021, organized by Department of Civil Engineering.


PRINCIPAL
P. R. Pote (Patil)
College of Engineering & Management
Amravati.

Copy To

1. All HODs
2. Notice Board
3. CSE
4. CIVIL
5. ELECTRICAL
6. EXTC
7. MECHANICAL
8. FIRST YEAR


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3.2.2.
Civil
2020-2021



**P. R. Pote Patil Edu. & Welf. Trust's, Group of Institutions,
College of Engineering & Management, Amravati**

Institute Code : 1107

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- Web. : www.prpem.org, www.prpatilcollege.org

Report of Title:

1	Title of Workshop	"Structural Health Monitoring & Retrofitting Rehabilitation of Structures"
2	Date of Workshop	10 th May-15 th May 2021
3	Venue of Workshop	Online on Zoom App 04.00 pm to 06.00 pm
4	Resource Person	Refer next page
5	Target of Students	200
6	Number of Students/Participants	155
7	Schedule of Program	Refer next page
8	Topics Covered	Refer next page
9	Mode Assessment	Question and answering
10	Outcome of workshop/FDP/Seminar/webinar	Participants gets acquainted with methods of Structural Health Monitoring & Retrofitting Rehabilitation of Structures


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Sr.No.	TOPIC	Date	Name of Resource Person	Time
1	Importance of Building Cracks in Structural Health Monitoring	10/05/2021 Monday (Day-01)	Dr. M. B. Kumthekar, Professor & HOD (Civil), GCoE. Karad	4.00 PM to 6.00 PM
2	Seismic Retrofitting – A Case Study	11/05/2021 Tuesday (Day-02)	Dr. Ratnesh Kumar, Associate Professor, VNIT, Nagpur	4.00 PM to 6.00 PM
3	Structural Health Monitoring using EMI Technique	12/05/2021 Wednesday (Day-03)	Dr. S. N. Khante Associate Professor, Gcoe. Amravati	4.00 PM to 6.00 PM
4	Seismic Retrofitting of Building Structures	13/05/2021 Thursday (Day-04)	Dr. P. S. Pachgade Professor & HOD(Civil), PRMITR Badnera	4.00 PM to 6.00 PM
5	Rehabilitation of Foundation-A Geotechnical Approach	14/05/2021 Friday (Day-05)	Dr. S. S. Saraf Assistant Professor & HOD(Civil), PRPPCE&M Amravati	4.00 PM to 6.00 PM
6	Introduction to non destructive testing of civil structures	15/05/2021. Saturday (Day-06)	Mr. Ravi Ranade, Managing Director Constuction Dignostic centre, Pvt. Ltd. Pune	4.00 PM to 6.00 PM


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Ph. No. 0721 – 3292969, 3294384 Fax No. 0721- 2530342 E-mail : prpotepatilcollege@gmail.com

07-05-2021

To,

Dr. M. B. Kumthekar,

Professor & HOD (Civil), GCoE. Karad

Respected Sir,

We are pleased to invite you as a guest speaker to the short term training programme on "Structural Health Monitoring & retrofitting, rehabilitation of structures" dated 10th May 2021 at 4.00 pm on ZOOM Platform. Your expertise and experience in this field of Non Destructive Testing will be an excellent addition to the STTP. Your guidance and presence itself is an honour for us and STTP Participants.

It's our kind request to accept our invitation.

Thank you.

Regards,



HOD

Civil Engineering

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Ph. No. 0721 – 3292969, 3294384 Fax No. 0721- 2530342 E-mail : prpotepatilcollege@gmail.com

07-05-2021

To,
Mr. Ravi Ranade,
Managing Director, Construction Diagnostic Centre, Pvt. Ltd.
Pune

Respected Sir,

We are pleased to invite you as a guest speaker to the short term training programme on "Structural Health Monitoring & retrofitting, rehabilitation of structures" **dated 15 May 2021 at 4.00 pm on ZOOM Platform**. Your expertise and experience in this field of **Non Destructive Testing** will be an excellent addition to the STTP. Your guidance and presence itself is an honour for us and STTP Participants.

It's our kind request to accept our invitation.

Thank you.

Regards,

HOD

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A
Report On
“Structural Health Monitoring & Retrofitting, Rehabilitation of Structures”




Objective:

- The objective of this short term training programme is to focus on the forefront area of structural engineering i.e. structural health monitoring, retrofitting and rehabilitation of structures.
- To enhance the practical knowledge, about structural health.

Outcome:

- Participants gets acquainted with methods of Structural Health Monitoring & Retrofitting Rehabilitation of Structures
- Participants get acquainted with failures of structures.


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**ISTE Approved Self Sponsored STTP On
"STRUCTURAL HEALTH MONITORING
& RETROFITTING REHABILITATION
OF STRUCTURES"**

10th May -15th May 2021

P. R. Pote (Patil) Education & Welfare Trust's
College of Engineering & Management, Amravati

The Short-Term Training Program on "Structural Health Monitoring & Retrofitting Rehabilitation of Structures" had been successfully organized by Civil Department, of P.R.Pote (Patil) Education & Welfare Trust's College of Engineering & Management, Amravati from 10th May-15th May 2021.

- The world is progressing day by day, and we are getting more and more modernized every day which demands a lot of changes from some previous conventional techniques that were followed.
- Rapid changes in working life, society and information technology have increased the demands for experts in every field. Today the need for expert professionals is raising day by day who are expected to have good knowledge, excellent social and communication skills and who are able to utilize their skills in a positive way in life.
- As we all know today's scenario, we all are facing problems of COVID19 during these days, & we all are in lockdown in our home during this situation.
- As a result, The Department of Civil Engineering, P.R. Pote Patil College of Engineering & Management, Amravati has organized ISTE approved online STTP on "**Structural Health Monitoring & Retrofitting Rehabilitation of Structures**" during lockdown period dated 10th to 15th May 2021 to enhance the practical knowledge, to collect the knowledge about structural health, collect the large amount information at home itself which is very beneficial.
- The objective of this short term training programme is to focus on the forefront area of structural engineering i.e. structural health monitoring, retrofitting and rehabilitation of structures.
- Use of smart material changes the perspective of structural health monitoring which uses sensors monitoring system. The buildings damaged due to earthquake may be of smaller or moderate magnitude can be reused if retrofitting methods can be used.

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10th May -15th May 2021

P. R. Pote (Patil) Education & Welfare Trust's
College of Engineering & Management, Amravati

P. R. Pote (Patil) College of Engineering & Management, Amravati

ISTE Sponsored

**Online STTP on "Structural Health Monitoring & Retrofitting Rehabilitation of
Structures"**

(From: 10/05/2021 to 15/05/2021)

Program Conduction Schedule

Sr.No.	TOPIC	Date	Name of Resource Person	Time
1	Importance of Building Cracks in Structural Health Monitoring	10/05/2021 Monday (Day-01)	Dr. M. B. Kumthekar, Professor & HOD (Civil), GCoE. Karad	4.00 PM to 6.00 PM
2	Seismic Retrofitting – A Case Study	11/05/2021 Tuesday (Day-02)	Dr. Ratnesh Kumar, Associate Professor, VNIT, Nagpur	4.00 PM to 6.00 PM
3	Structural Health Monitoring using EMI Technique	12/05/2021 Wednesday (Day-03)	Dr. S. N. Khante Associate Professor, Gcoe. Amravati	4.00 PM to 6.00 PM
4	Seismic Retrofitting of Building Structures	13/05/2021 Thursday (Day-04)	Dr. P. S. Pachgade Professor & HOD(Civil), PRMITR Badnera	4.00 PM to 6.00 PM
5	Rehabilitation of Foundation-A Geotechnical Approach	14/05/2021 Friday (Day-05)	Dr. S. S. Saraf Assistant Professor & HOD(Civil), PRPPCE&M Amravati	4.00 PM to 6.00 PM
6	Introduction to non destructive testing of civil structures	15/05/2021. Saturday (Day-06)	Mr. Ravi Ranade, Managing Director Constuction Dignostic centre, Pvt. Ltd. Pune	4.00 PM to 6.00 PM

Principal



**ISTE Approved Self Sponsored STTP On
"STRUCTURAL HEALTH MONITORING
& RETROFITTING REHABILITATION
OF STRUCTURES"**

10th May -15th May 2021

**P. R. Pote (Patil) Education & Welfare Trust's
College of Engineering & Management, Amravati**

**P. R. Pote (Patil) College of Engineering & Management, Amravati
ISTE Sponsored
Online STTP on "Structural Health Monitoring & Retrofitting Rehabilitation of
Structures"
(From: 10/05/2021 To 15/05/2021)**

Day Wise Links

Day 01 - Link

P. R. Pote Patil Group Amravati is inviting you to a scheduled Zoom meeting.

**For: ISTE approved STTP on Structural Health Monitoring & Retrofitting Rehabilitation of
Structures**

Day 01: Resource Person

Dr. M. B. Kumthekar, Professor & HOD (Civil), GCoE, Karad.

Topic: Importance of Building Cracks in Structural Health Monitoring

Date: 10th May, 2021

Time: 4:00 PM

Join Zoom Meeting

<https://us02web.zoom.us/j/87820375583?pwd=MTdlQlRUM1NScl0MjBMQlhxMzllZz09>

Meeting ID: 878 2037 5583

Passcode: 760347

Day 02 - Link

P. R. Pote Patil Group Amravati is inviting you to a scheduled Zoom meeting.

**For: ISTE approved STTP on Structural Health Monitoring & Retrofitting Rehabilitation of
Structures**

Day 02: Resource Person

Dr. Ratnesh Kumar, Associate Professor, VNIT, Nagpur.

Topic: Seismic Retrofitting-A Case Study

Date: 11th May, 2021

Time: 4:00 PM

Join Zoom Meeting

<https://us02web.zoom.us/j/86073062472?pwd=R3Z2NFY2Z2dPRC9UVFAwdENLR2t4Zz09>



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OF STRUCTURES"**

10th May -15th May 2021

P. R. Pote (Patil) Education & Welfare Trust's
College of Engineering & Management, Amravati

Meeting ID: 860 7306 2472

Passcode: 880910

Day 03 -Link

P. R. Pote Patil Group Amravati is inviting you to a scheduled Zoom meeting.

For: ISTE approved STTP on Structural Health Monitoring & Retrofitting Rehabilitation of Structures

Day 03: Resource Person

Dr. S. N. Khante, Associate Professor, GCoE, Amravati.

Topic: Structural Health Monitoring Using EMI Technique

Date: 12th May, 2021

Time: 4:00 PM

Join Zoom Meeting:

<https://us02web.zoom.us/j/82593260500?pwd=QnZ3UDY1VjkyZlRiQ2xFS0lxd1pqZz09>

Meeting ID: 825 9326 0500

Passcode: 904699

Day 04 - Link

P. R. Pote Patil Group Amravati is inviting you to a scheduled Zoom meeting.

For: ISTE approved STTP on Structural Health Monitoring & Retrofitting Rehabilitation of Structures

Day 04: Resource Person

Dr. P. S. Pajgade, Professor & HOD (Civil), PRMITR, Badnera.

Topic: Retrofitting- Case Studies

Date: 13th May, 2021

Time: 4:00 PM

Join Zoom Meeting

<https://us02web.zoom.us/j/85166999197?pwd=VzYrYjhWSDRvMTZXRiVhbk1QMnZXUT09>

Meeting ID: 851 6699 9197

Passcode: 558250

Principal

H. Q. J. (Civil Dept.)



**ISTE Approved Self Sponsored STTP On
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10th May -15th May 2021

**P. R. Pote (Patil) Education & Welfare Trust's
College of Engineering & Management, Amravati**

Day 5 - Link

P. R. Pote Patil Group Amravati is inviting you to a scheduled Zoom meeting.

For: ISTE approved STTP on Structural Health Monitoring & Retrofitting Rehabilitation of Structures

Day 05: Resource Person

Dr. S. S. Saraf, Assistant Professor & HOD (Civil), PRPCE&M, Amravati.

Topic: Rehabilitation of Foundation- A Geotechnical Approach

Date: 14th May, 2021

Time: 4:00 PM

Join Zoom Meeting

<https://us02web.zoom.us/j/82479804318?pwd=SFNqNXRmdVp4VlU1UzA0dHdjRIJYQT09>

Meeting ID: 824 7980 4318

Passcode: 449903

Day 6 - Link

P. R. Pote Patil Group Amravati is inviting you to a scheduled Zoom meeting.

For: ISTE approved STTP on Structural Health Monitoring & Retrofitting Rehabilitation of Structures

Day 06: Resource Person

Mr. Ravi Ranade, Managing Director, Construction Diagnostic Centre, Pvt. Ltd. Pune

Topic: Introduction to Non Destructive Testing of Civil Structures

Date: 15th May, 2021

Time: 4:00 PM

Join Zoom Meeting

<https://us02web.zoom.us/j/84529406837?pwd=KytJYlhNQVNvTUFjUXZJVfQxUEJWUT09>

Meeting ID: 845 2940 6837

Passcode : 179055


Principal


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P. R. Pote (Patil) College of Engg. & Management



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10th May -15th May 2021

P. R. Pote (Patil) Education & Welfare Trust's
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**P.R.Pote Patil College Of Engineering And Management, Amravati
Online STTP on "Structural Health Monitoring & Reterofitting Rehabilitation of
Structures"**

Participants Fees Received Details For ISTE Certificate

SN	Name of Participant	College Name	ISTE Membershi p Number	Email Id	Contact Number
1	Mandar Madhukar Joshi	Pankaj Laddhad Institute Of Technology Buldana	LM126066	mandarjoshi1608@gmail.com	9420563898
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12	Swapnil Arun Deshmukh	Pankaj Laddhad Institute Of Technology	LM126067	swapnilarun973@gmail.com	9503699780



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20	Surekha Shivajirao Patil	Rmdssoe	LM118280	ksurekh@gmail.com	9923341877
21	Ashish Ratanchand Kondekar	Sinhgad Institute Of Technology And Science Narhe Pune	LM 130288	ashish.kondekar.sits@sinhgad.edu	9850170605
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24	Dr. Vijay V. Muthekar	MIT Academy Of Engineering, Alandi, Pune.	LM-103725	vijay.muthekar@mitaoe.ac.in	9850391114
25	Jyoti Chhagan Bhong	Vpkbiet, Baramati	LM 210620	jyoti.bhong@vpkbiet.org	9146939217
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29	Rajesh Tryambakrao Aghao	Government Polytechnics Aurangabad	LM20854	rajesh18368@gmail.com	9326146501



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10th May -15th May 2021

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33	Anup K. Chitkeshwar	P. R. Pote Patil College Of Engineering And Management Amravati	LM 77004	anupkchitkeshwar@gmail.com	9021409523
34	Dr.Sachin S. Saraf	P. R. Pote Patil College Of Engg And Management Amravati	LM 77006	sachinsaraf2014@gmail.com	9822565805
35	Prof Vinod Appa Choudhari	MAEER's MIT College Of Railway Engineering & Research, Barshi	LM83488	vachoudhari19@gmail.com	9921048610
36	Mohd Abdul Rehman	P. R. Pote Patil College Of Engg And Management Amravati	LM103702	marprpcem@gmail.com	9370001318
37	Suhas Vasanttrao Pawar	P. R. Pote Patil College Of Engg And Management Amravati	LM124112	pawars86@gmail.com	9421318464
38	Dr. Mohammad Zuhair	P. R. Pote Patil College Of Engg And Management Amravati	LM77001	zuhairgcoe@gmail.com	9823962311
39	Dr.Radha Sushil Bang	Government Polytechnic, Aurangabad	LM38090	rsbang@rediffmail.com	9421685931
40	Swapnil Arun Deshmukh	Pankaj Laddhad Institute Of Technology And Management Studies, Buldana	LM126067	swapnilarun973@gmail.com	9503699780
41	Sanket Vasant Sabale	Jawaharlal Darda Institute Of Engineering And Technology, Yavatmal	LM 105150	sanketsabale123@yahoo.com	9175725252
42	Anujkumar Pradip Domale	Mgm's Polytechnic , Aurangabad	LM 113967	anujdomale@gmail.com	7588091381
43	Dr Shivaji M Dumne	Government Polytechnic, Awasari, Pune	LM 9963	dineshgawatre@gmail.com	9422873345
44	Dinesh W Gawatre	Sinhgad Academy Of Engineering, Pune-48	LM-81114	smdumne@gmail.com	9075969911
45	Harshwardhan P. Nistane	Prmit&R, Badnera	LM104515	harshwardhan.nistane@gmail.com	9890905539



**ISTE Approved Self Sponsored STTP On
"STRUCTURAL HEALTH MONITORING
& RETROFITTING REHABILITATION
OF STRUCTURES"**

10th May -15th May 2021

P. R. Pote (Patil) Education & Welfare Trust's
College of Engineering & Management, Amravati

Program Details

Day 1

Session I : Inaugural function

Inaugural function of the STTP was conducted on 10th May 2021 at 04.00 pm by the hands of Dr. S. A. Ladhake, Director, P. R. Pote (Patil) Education & Welfare Trust's Group of Educational Institutions, Amravati, Dr. A. V. Kale, Principal, PRPCE & M, Amravati. & Dr. Mohammad Zuhair, Vice-Principal, PRPCE & M, Amravati. All faculties were present on this occasion.

The ceremony started with a welcome of chief guest. Later chief guest officially inaugurated the program with keynote. STTP Convener Dr. Mohammad Zuhair, Vice-Principal, PRPCE & M, Amravati explained the necessity of arranging the STTP and its features.

Webinar 1 : Importance of Cracks in Building in Structural Health Monitoring

This session was delivered by Dr.M.G.Kumthekar, HOD, Dept. of Civil engg. GCOE Karad. He explained the significance of cracks in building, principle causes of cracks in building. Also he states that 90% of cracks are harmless but though it damages the appearance of structure.

Dr. M G Kumthekar also explained the need of structural audit to check whether building is safe or not to reside, like we get checked up regularly from Doctor to know whether we are fit enough or not.

Webinar 2 : Seismic Retrofitting – A Case Study

This session was conducted by Dr, Ratnesh Kumar, Asso. Professor, Dept. of Civil engg., VNIT, Nagpur. He explained Goals of retrofitting, various strategies of retrofitting to be adopted at different conditions. He also elaborated steps in Evaluation and Retrofitting.

Webinar 3 : Structural Health Monitoring Using EMI Technique

This session was conducted by Dr, S.N.Khante, Asso. Professor, Dept. of Civil engg., GCOE, Amravati. He explained the importance of structural Health Monitoring, He also explain a key aspect of EMI method i.e. the use of PZT patches as collocated sensors and actuators, to apply PZT as an actuator-sensor simultaneously, a PZT patch bonded to a structure is driven by a fixed alternating electric field. He also highlights the need of monitoring the infrastructures.

Webinar 4 : Retrofitting – Case Studies

This session was conducted by Dr, P.S.Pajgade, HOD, Dept. of Civil engg., PRMIT&R, Badnera. He explained the various terms such as Repair, Restoration, Strengthening & retrofitting. He also covered the Methodology of Retrofitting along with the Analysis of the structures.

Webinar 5 : Rehabilitation of Foundation – A Geotechnical Approach

Dr. S.S.Saraf, HOD, Dept. of Civil engg., PRPCE&M, Amravati, has Enlighten on Foundation & its requirements, Different causes of foundation failure.

He explained various Foundation Rehabilitation Techniques like concrete jacketing, Underpinning, push pier system, Mud jacking etc.

Webinar 6: Introduction to Non Destructive Testing of Civil Structures

This session was conducted by Mr. Ravi Ranade, Managing Director, Construction Diagnostic Centre, Pvt. Ltd. Pune. He explained Why the NDT is essential for the Life span of the Civil Engineering Structures. He also Enlighten the Various test under NDT & the properties of the Fresh /Hardened Concrete.

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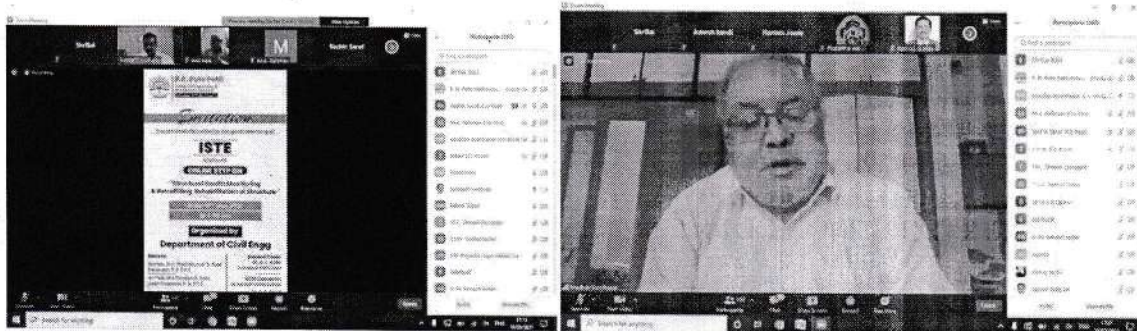


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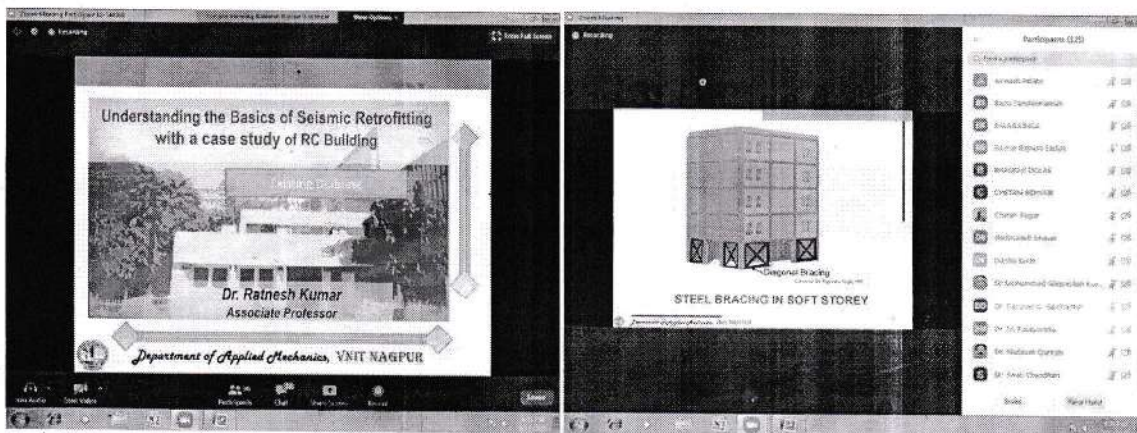
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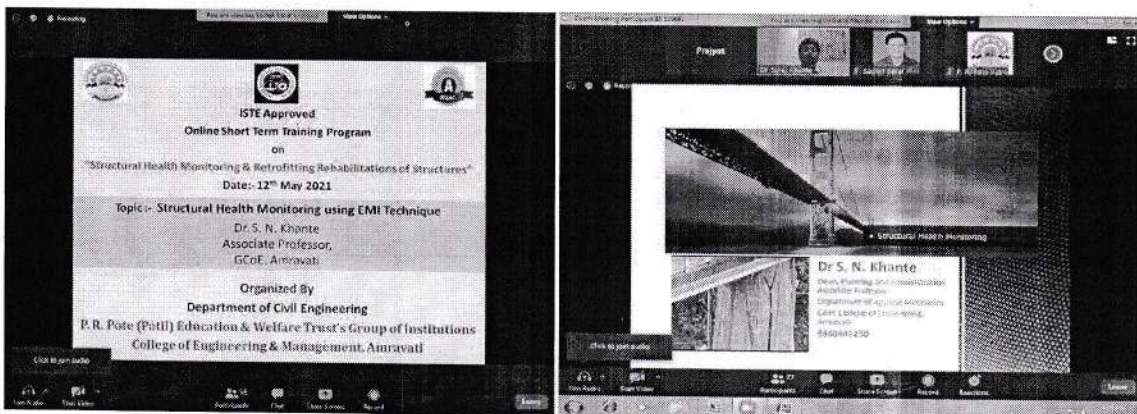
Photographs of Online delivery



**Inaguration of STTP & Participants in the STTP ; Dr. M. B. Kumthekar addressing the session
on Dt. 10.05.2021**



**Dr. Ratnesh Kumar, addressing the session ;Participants in the session of Dr. Ratnesh Kumar
on Dt. 11.05.2021**



Dr. S. N. Khante addressing the session on Dt. 12.05.2021

**Principal
P. R. Pote (Patil)**

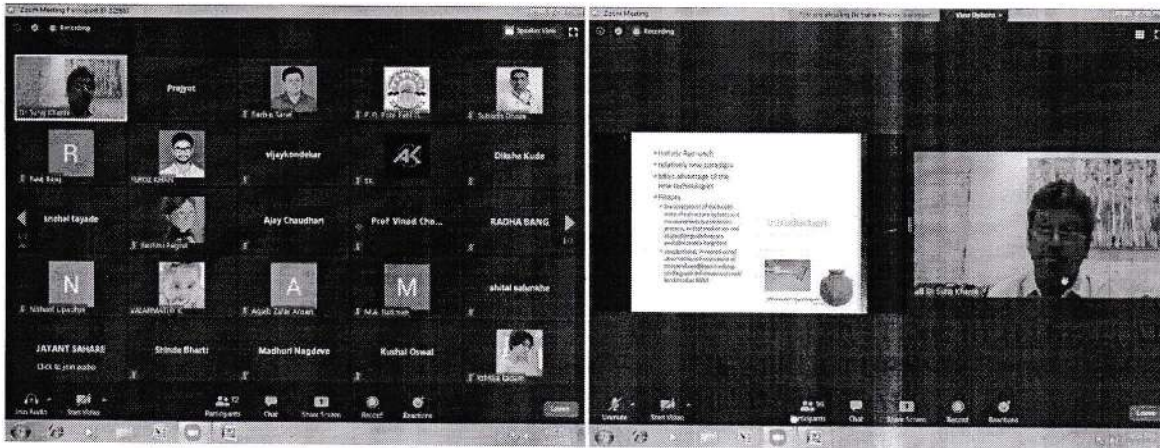
H.O.D. (Civil Dept.)



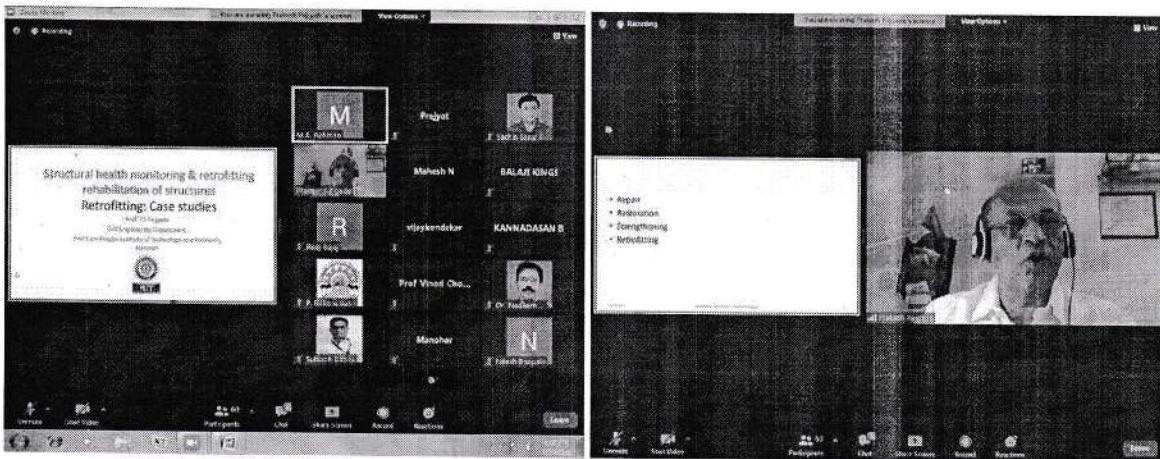
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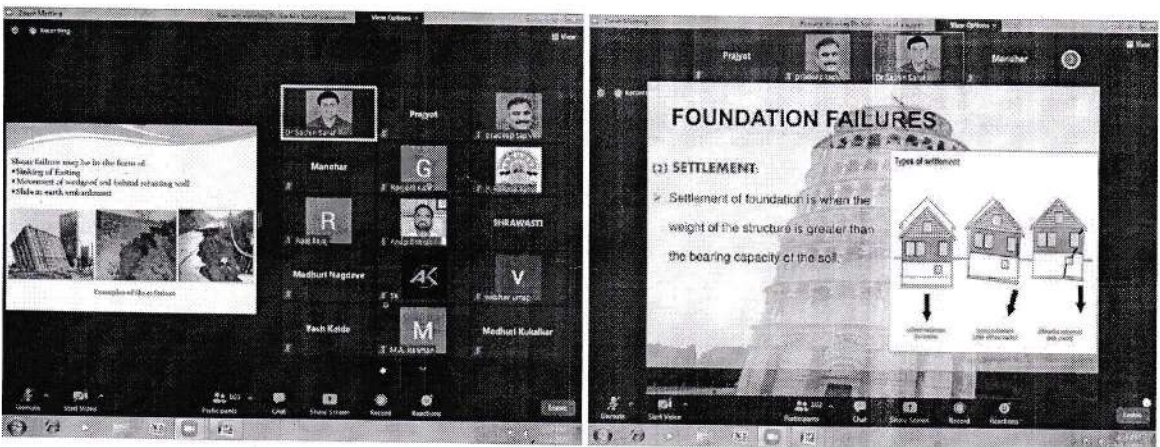
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Participants in the session of Dr. S. N. Khante ; Dr. S. N. Khante addressing the session on Dt. 12.05.2021



Participants in the session of Dr. P. S. Pachgade; Dr. P. S. Pachgade addressing the session on Dt. 13.05.2021



Participants in the session of Dr. S. S. Saraf Dr. S.S. Saraf addressing the session on Dt. 14.05.2021

[Signature]
Principal

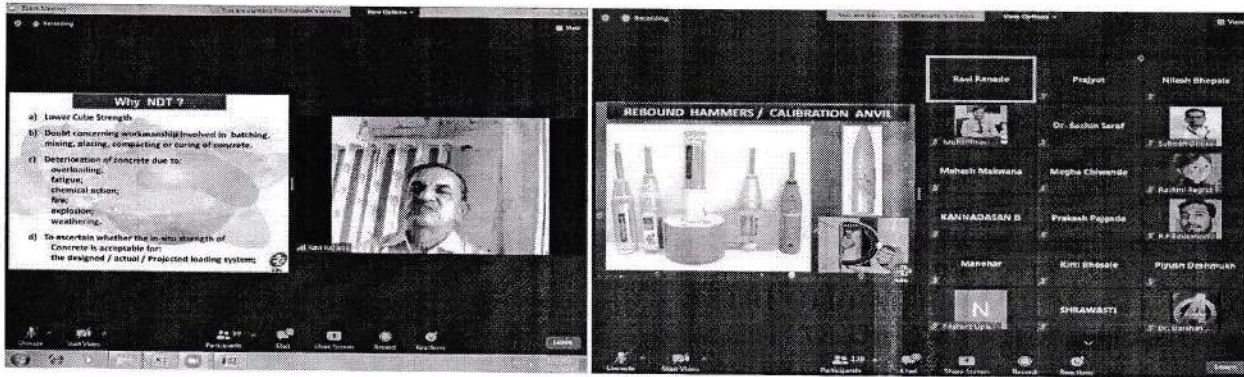
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HOD/CSE



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**Mr. Ravi Ranade, addressing the session ; Participants in the session of Mr. Ravi Ranade
on Dt. 15.05.2021**

At day 6, STTP commenced with Objective Test Examination, in that participants were given the Test paper and asked to submit it with their responses. Further participants were asked to give genuine feedback on the organized program and asked to give fair suggestions for further improvement.

Finally, the course was formally wrapped up with Valedictory ceremony on 15th May 2021, in the presence of participants and distinguished faculty members. The course content, its delivery and other facilities were rated adequate through online google sheet feedback of participants. In concluding part of the ceremony, vote-of-thanks was given by Prof. N P Bhopale, the Programme coordinator. The entire course ended with National Anthem.


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**ISTE Sponsored
Online STTP on "Structural Health Monitoring & Reterofitting Rehabilitation of
Structures"**

(From: 10/05/2021 To 15/05/2021)

MCQ Questions for the STTP (Quiz)

Q. 1) The factors Influencing Rebound Hammer Test is,

- Type of Aggregate
- Type of Cement
- Surface and moisture condition of the concrete
- All of the above**

Q. 2) The deposition of water-soluble salts on the surface of masonry or concrete is called as

- Spalling
- efflorescene**
- crazing
- laitance

Q 3) A majority of the structural cracks occur as a result of the following conditions:

- Design deficiency
- Settlement or heaving of soil
- Corrosion in reinforcement
- all of these**

Q 4) The Rehabilitation of structures may be required due to several reasons. Choose the correct reason.

- Tensile effects
- Environmental effects**
- Compressive effects
- None of the above

Q. 5) Which type of inspection is more intensive involing examination of structural elements?

- Reverse inspection
- General inspection
- Major inspection**
- Minor inspection

[Signature]
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Q. 6) It is the process of restoring structure in good condition that is damaged or deteriorate or broken

Repairs

Rehabilitate

Tensioning

None of the above

Q. 7) An ultrasonic pulse velocity test is an

Ex-situ, nondestructive test

In-situ, nondestructive test

Ex-situ, destructive test

In-situ, destructive test

Q. 8) The strength and quality of concrete is assessed by measuring the ____ of an ultrasonic pulse

Length

Velocity

Weight

Surface Tension

Q. 9) The repair and rehabilitation of damaged or spalled concrete is done by removing the

Loose concrete

Collapsing

Breakage

Bonding

Q.10) Which among the following is not a type of Non-destructive testing?

Ultrasonic testing

Visual testing

Rebound Hammer Test

Creep Test

Q11) The pachometer used to locate


Steel Reinforcement

Concrete

Clear cover

None of the above


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Q.12) The corrosion of reinforcement due to extreme exposure is common for structure located in _____

Dry conditions
Costal zones
Regional zones
Hot condition

Q 13) In restoration of strength by adding external reinforced concrete the damages concrete is first repaired by,

Preload
Tensile load
Compressive load
Overload

Q. 14) In one week STTP the resource person Dr.S.N.Khante sir delivered lecture on

Seismic Retrofitting
Structural Health Monitoring using EMI Technique
Rehabilitation of Foundation-A Geotechnical Approach
Importance of building cracks

Q. 15) The process of restoring or increasing section of an existing member by enclosing it in new concrete is called

Overlay
grouting
guniting
jacketing


Q. 16) Shotcrete is used in application of

Soil stabilization
water proofing
stabilization of rock slopes
none

Q. 17) A design review indicated that the reinforcements at the cracked locations were _____

Adequate
Inadequate
Collapse
none of the above


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Q. 18) On basis of width fine cracks have the size

< 1mm

1-2mm

> 2mm

None

Q. 19) For testing mass concrete in roads, air-field pavements and hydraulic structures, the approximate impact value required for rebound hammer

10

20

30

40

Q. 20) The inheritability of concrete to heal cracks within itself is called

Carbonation

passivation

autogenous healing

none


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10th May -15th May 2021

**P. R. Pole (Patil) Education & Welfare Trust's
College of Engineering & Management, Amravati**

Participants Quiz Result & Feedback Details

Sr.No	Name of Participants	Quiz Score Out of 20	Result
1	Mandar Madhukar Joshi	20	PASS
2	Neelam W. Chorey	18	PASS
3	Jayant J. Sahare	17	PASS
4	Avinash D. Jakate	16	PASS
5	Akshay Vijayrao Deshmukh	20	PASS
6	Amey Diliprao Deshmukh,	16	PASS
7	Sneha Suresh Bhende	18	PASS
8	Mr. Piyush Pandit Kadam	19	PASS
9	Dr. Vishvanath N. Kanthe	16	PASS
10	Swapnil Arun Deshmukh	14	PASS
11	Giridhari Chandrabansi	16	PASS
12	Shrikant Ramkrishna Bhuskade	20	PASS
13	Dr. Mohammed Nadeem Qureshi	19	PASS
14	Rafat Ali Vilayat Ali	16	PASS
15	Prof Vinod Appa Choudhari	15	PASS
16	Dr Dhananjay K Parbat	14	PASS
17	Surekha Shivajirao Patil	19	PASS
18	Ashish Ratanchand Kondekar	18	PASS
19	Mahesh Maganlal Makwana	20	PASS
20	Prof. Bhanudas G. Abhale	19	PASS
21	Dr. Vijay V. Muthekar	20	PASS
22	Jyoti Chhagan Bhong	18	PASS
23	B. T. Dolas	18	PASS
24	Syed Sabihuddin	16	PASS
25	Dr M V Mohod	20	PASS
26	Rajesh Tryambakrao Aghao	14	PASS
27	Anup K. Chitkeshwar	16	PASS
28	Prof Vinod Appa Choudhari	15	PASS
29	Mohd Abdul Rehman	14	PASS
30	Dr. Radha Sushil Bang	16	PASS
31	Swapnil Arun Deshmukh	14	PASS
32	Dr Shivaji M Dumne	20	PASS
33	Harshwardhan P. Nistane	19	PASS

Signature of HoD

P. R. Pole (Patil) College of Engg. & Management

IQAC In charge
Coordinator, IQAC



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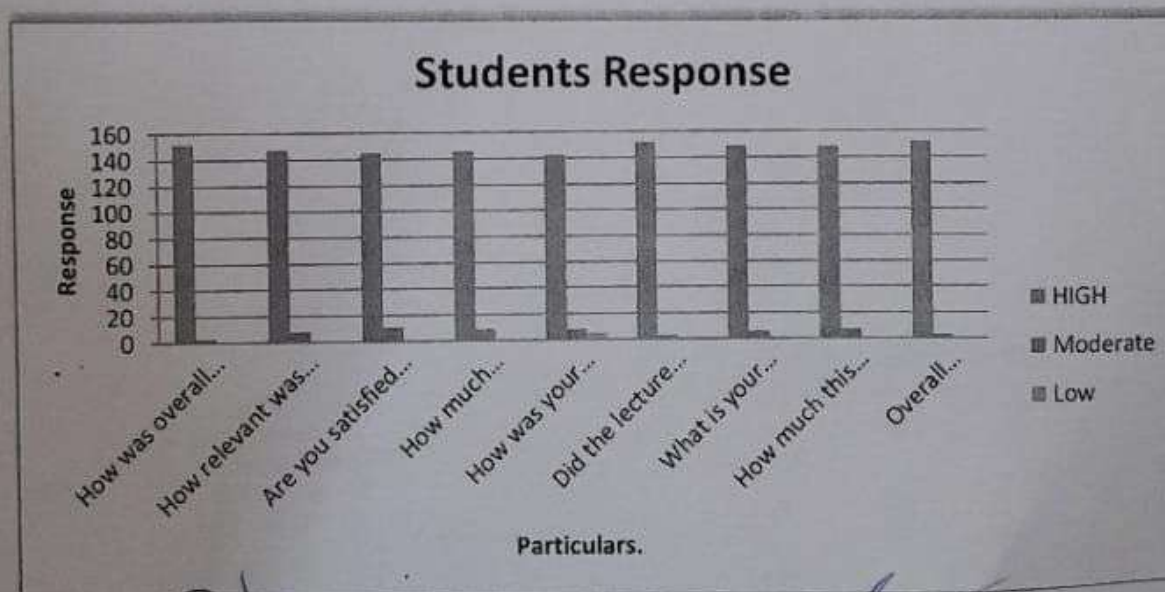
P. R. Pote (Patil) College of Engineering & Management (PRPCEM), Amravati

Department of Civil Engineering Academic Year 2020-2021

"Structural Health Monitoring & Retrofitting Rehabilitation of Structures"

No. of Participants:		155				
Sr. No	Particular	Excellent (5 marks)	Very Good (3 Marks)	Good (2 Marks)	Poor (1 Marks)	% Feedback
1	How was overall organization of lecture?	152	3	0	0	99.23
2	How relevant was the content deliver by the speaker?	147	8	0	0	97.94
3	Are you satisfied with the time and venue?	144	11	0	0	97.16
4	How much interesting the session was for you?	146	9	0	0	97.68
5	How was your preparation about the topic before the guest lecture?	142	8	5	0	96.00
6	Did the lecture cover what you were expecting?	152	3	0	0	99.23
7	What is your opinion about the speaker?	149	6	0	0	98.45
8	How much this session was useful from the knowledge and information point of view?	148	7	0	0	98.19
9	Overall effectiveness of the lecture.	152	3	0	0	99.23

Feedback Analysis



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Amravati University, Amravati (M.S.)

CERTIFICATE

This is to certify that,
Suhas Vasantrao Pawar

has attended One Week Online Short-Term Training Programme on "STRUCTURAL HEALTH MONITORING & RETROFITTING, REHABILITATION OF STRUCTURE" approved by Indian Society for Technical Education (ISTE), New Delhi during 10/05/2021 to 15/05/2021 Organised by Department of Civil

Dr. Mohd. Zuhair / Dr. S. S. Saraf
Programme Convenor

Dr. A. V. Kale
Principal

Dr. S. A. Ladakhe
Director

ISTE Sanction Order: ISTE/Proceedings/Online STTP-SF-MAH-003/2021-22 Dated April 8, 2021



Principal
P. R. Pote (Patil)
College of Engineering & Management
Amravati

Insole Sir



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Indian Society for Technical Education
Shaheed Jeet Singh Marg New Delhi – 110 016

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This is to certify that Mr/Ms. **SACHIN S. SARAF** has successfully completed ISTE approved Online/SF-STTP/FDP Programme on “**Structural Health Monitoring & Retrofitting Rehabilitation of Structures**” held during **10.05.2021 to 15.05.2021** organized by **P.R.Pote Patil College Of Engineering And Management, Amravati, Maharashtra**

Online/P-2020/1609

Waidy

Executive Secretary

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This is to certify that,
Anup K. Chitkeshwar

has attended One Week Online Short-Term Training Programme on "STRUCTURAL HEALTH MONITORING
& RETROFITTING, REHABILITATION OF STRUCTURE" approved by Indian Society for Technical Education
(ISTE), New Delhi during 10/05/2021 to 15/05/2021 Organised by Department of Civil
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Dr. Mohd. Zuhair / Dr. S. S. Saraf
Programme Convenor

Dr. A. V. Kale
Principal

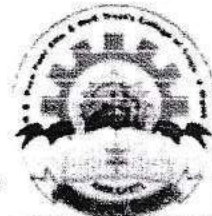
Dr. S. A. Ladakhe
Director

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This is to certify that, Prof.VaibhavMahalle__of PRPCEM_has attended a One Week Short-Term training programme on "STRUCTURAL HEALTH MONITORING & RETROFITTING,REHABILITATION OF STRUCTURE" approved by Indian Society for Technical Education (ISTE), New Delhi during 10/05/2021 to 15/05/2021 Organised by Department of Civil Engineering at P. R. Pote (Patil) College of Engineering & Management, Amravati.

Certificate ID: _____



Dr. M.Zuhair /Dr.S.S.Saraf
Programme Convenor


Dr.A.V.Kale
Principal


Dr.S.A.Ladakhe
Director

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CERTIFICATE

This is to certify that Mr/Ms. **MOHD ABDUL REHMAN** has successfully completed
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This is to certify that,

Manish Sudhakar Rao Deshmukh

has attended One Week Online Short-Term Training Programme on "STRUCTURAL HEALTH MONITORING
& RETROFITTING, REHABILITATION OF STRUCTURE" approved by Indian Society for Technical Education
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Dr. Mohd. Zuhair / Dr. S. S. Saraf
Programme Convenor

Dr. A. V. Kale
Principal

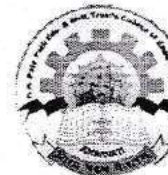
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This is to certify that,

SUBODHKUMAR VITTHALRAO DHOKE

has attended One Week Online Short-Term Training Programme on "STRUCTURAL HEALTH MONITORING
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Dr. Mohd. Zuhair / Dr. S. S. Saraf
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