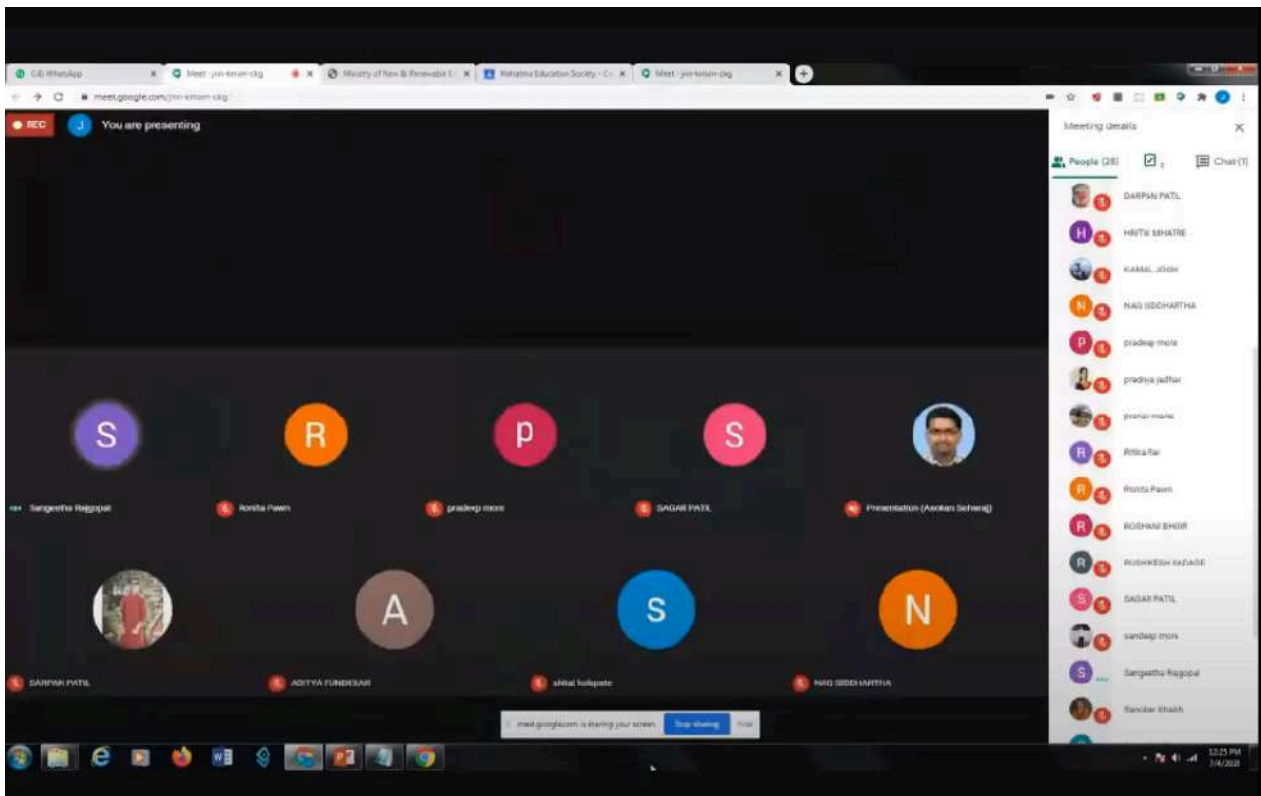


### 6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during 2020-21

#### Webinar On “Solar photovoltaic and research aspects”

A webinar on “Solar photovoltaic and research aspects” was organized by the Department of Electrical Engineering and it was held on **04<sup>th</sup> July 2020 at 12:00 p.m.** Mr.Asokan Selvaraj, PHCET, Assistant Professor, was the resource person. He has vast experience in the area of Solar photovoltaic. He has completed a solar photovoltaic course from IIT Bombay and National Institute Solar Energy, Gurgram. The Webinar was organized through Google meet. Many SE, TE students and faculty participants had attended the session.



Screenshot of the webinar

The Speaker commenced the session with an introduction to energy requirements of India and shares of different renewable Energy sources, and also introduced the advantages of renewable energy sources. He mainly focused on solar photovoltaic and its importance. Further, he

*Sangetha Raggup*

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explained the construction, operation of silicon solar cells. The speaker explained various conditions to extract maximum power from a solar cell, a single diode model of a multicrystalline silicon solar cell and the power losses in a solar cell due to various dynamic parameters. Eventually various research opportunities on Solar photovoltaic were also discussed in this webinar. Different research and entrepreneur options have been explained from MNRE website.

The session concluded with a question answer session at 2:00 p.m. Positive feedback was received for the webinar and students suggested organizing more sessions like the same in the future.



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**Topic: “PCB Designing Workshop”**

Date: 22<sup>nd</sup> April, 2021

Platform – Google Meet

Co-coordinator: Prof. Aamir Shaikh

Schedule:

| <b>Time</b>          | <b>Programme</b> |
|----------------------|------------------|
| 11:00 am to 11:15 am | Inauguration     |
| 11:15 am to 12:45 pm | Lecture          |
| 12:45 pm to 01:00 pm | Vote of Thanks   |

**Speaker Profile:**



**Mr. Pratik Mhatre**, Research Scholar at MPSTME, NMIMS University, Mumbai and working as an Assistant Professor in Electronics & Telecommunication department at PHCET, Rasayani. Sir has 08 years of teaching and research experience with publication in various reputed journals and at various conferences of USA and India. Sir is expert in the field of Printed Circuit Board technology. Prof. Aamir Shaikh introduced the Speaker and Session started.



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## Expert Talk:

The guest speaker took over the session with the importance of PCB in Electrical engineering and what are the requirements of making PCB. Step by step procedure was explained by Sir. Key concepts of etching, drying, fabrication etc. were explained in brief. Sir demonstrated the live PCB making on software and interacted with participants by making one circuit.

Sir explained the CNC machine interfacing with software installed in the computer through video. Sir explained very nicely the fabrication of IC 555 from beginning of layout making to the final fabrication.

Various applications such as antennas and radar engineering were highlighted. Participants responded quickly to the speaker and one of the students Kamal Joshi was appreciated for his quick and accurate response. The session ended with a vote of thanks to the speaker.

The screenshot shows a Google Meet interface. The main window displays a presentation slide titled "SMART PCB MAKING WORKSHOP". The slide content includes:

- Circuit Diagram:** A schematic diagram for "DRIVING A BI-COLOURED LED" using an IC 555 timer.
- Components Details:** A table listing components and their values.

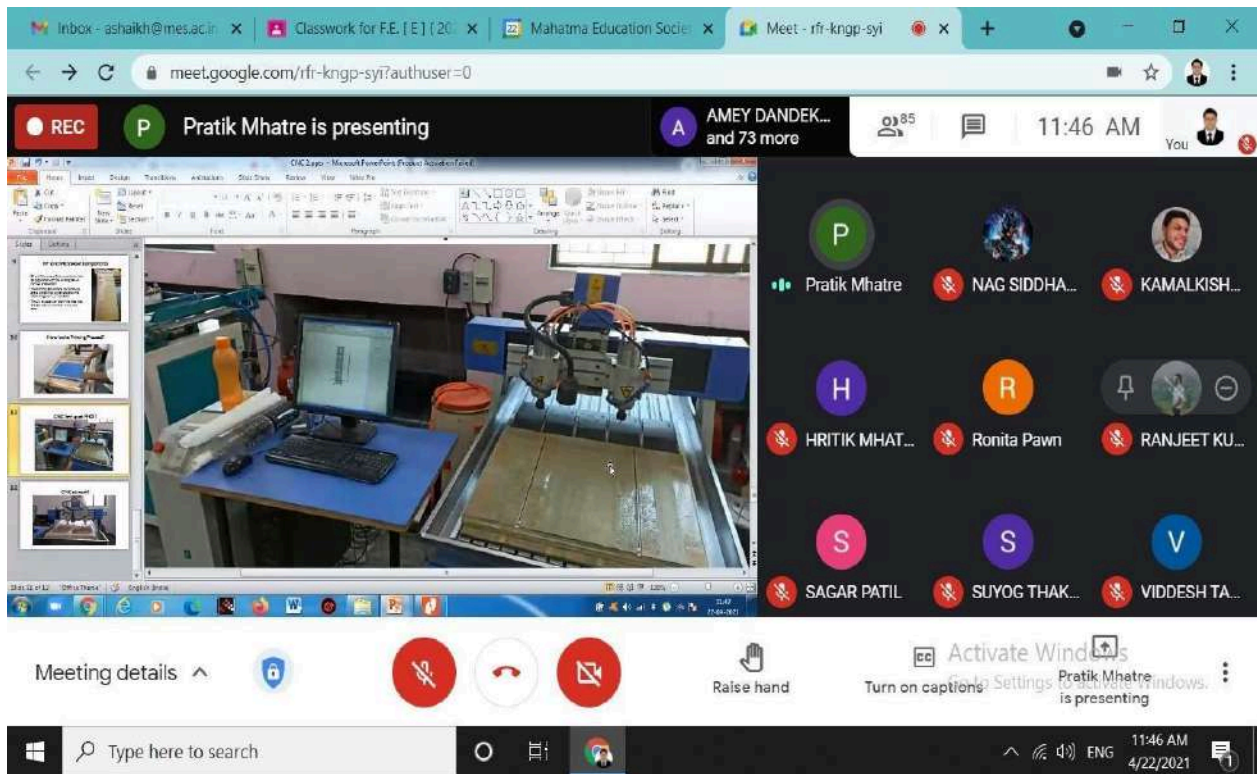
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| Red        | 2     | 100       | ±2%       |
| Orange     | 3     | 1,000     | ±3%       |

Below the slide, a list of participants is visible, including Pratik Mhatre, ANIRUDH KA..., KAMALKISH..., NAG SIDDHA..., HRITIK MHAT..., Ronita Pawn, RANJEET KU..., SAGAR PATIL, and SHUBHAM D... The meeting time is 11:20 AM on 4/22/2021.

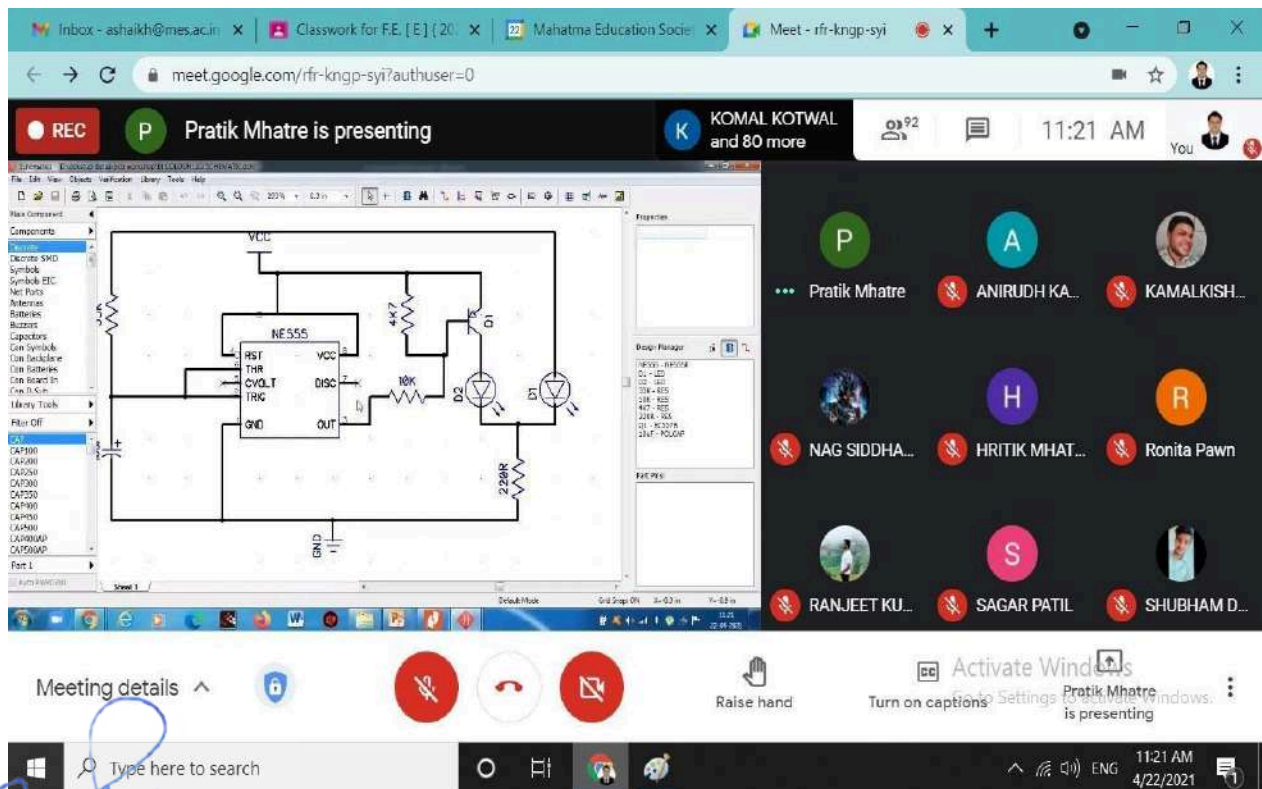
Attendance of participants recorded on Google Meet

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### Explanation by Expert during Session



*Swahid*

### IC 555 PCB Making explanation

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Vote of Thanks and Session concluded

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## Webinar on “Data Visualization using Python”

|                        |   |
|------------------------|---|
| <b>Date</b>            | July 3, 2020  |
| <b>Platform</b>        | Google Meet   |
| <b>Resource Person</b> | Mr. Pankaj Kunekar, Assistant Professor, Atharva College of Engineering, Mulund |
| <b>Coordinator</b>     | Ms. Babita Bhagat & Ms. Srijita Bhattacharjee                                   |
| <b>Department</b>      | Computer Engineering  |

The Computer Engineering Department had successfully conducted an Online Webinar on “**Data Visualization using Python**” for students and faculty of PHCET.

In this Pandemic situation, Pillai’s HOC College of Engineering, Department of Computer Engineering has organized various webinars for aspirants assembling with various interests in the field with a very high competitive spirit to participants and with the strong determination to include their achievements & accomplishments to their resumes. For the preceding academic year 2019-2020, Ms. Babita Bhagat & Ms. Srijita Bhattacharjee have organized a webinar on " Data Visualization using Python" on 3<sup>rd</sup> July 2020. Webinar was conducted by Mr. Pankaj Kunekar. Ms. Saraswati has introduced the speaker that he has 7 years of experience in the areas of databases, programming languages, Data access technologies and many more. He worked as an Assistant Professor at Atharva College of Engineering. 88 students & faculty have attended this event.



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Mahatma Education Society's  
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Rasayani  
Department of Computer Engineering

Webinar  
on  
Data Visualization using Python

Date : 3<sup>rd</sup> July 2020 at 2.00pm onwards

SARASWATI PATKAR

0:01 / 1:09:01

WHAT IS DATA VISUALIZATION

- Data Visualization is the presentation of data in graphical format.
- It helps people understand the significance of data by summarizing and presenting large amount of data in a simple and easy-to-understand format and helps communicate information clearly and effectively.

Parthaj Khandekar

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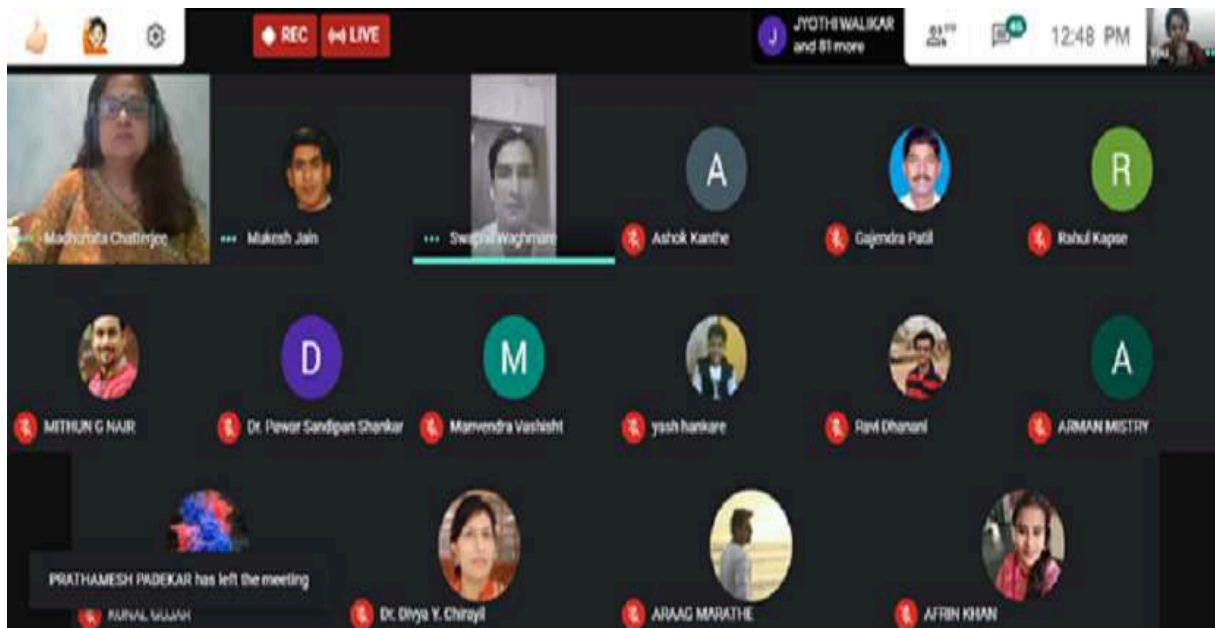
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## Webinar on “Insights Into AI & Analytics Careers Post Covid-19”

|                        |  |
|------------------------|--|
| <b>Date &amp; Time</b> | 4th July, 2020   |
| <b>Platform</b>        | Zoom Meeting   |
| <b>Resource Person</b> | Mr. Mukesh Jain, Chief Technology and Innovation Officer (CTIO), VP and Head of Insights & Data Technology at Capgemini, India |
| <b>Coordinator</b>     | Mr. Swapnil Waghmare   |
| <b>Department</b>      | Computer Engineering   |

The department of Computer Engineering has organized a Webinar on “Insights Into AI & Analytics Careers Post Covid-19” on Saturday 4th July 2020. The webinar was conducted by Mr. Mukesh Jain, Chief Technology and Innovation Officer (CTIO), VP and Head of Insights & Data Technology at Capgemini, India. There were a total 150 participants for this webinar. During his webinar he explained the Importance of AI & Data Analytics, Industry expectations, Career Opportunities in Analytics. He shared his experience working with Bill Gates and how he developed an AI algorithm which really motivated all the participants.



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*Pillai*



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Accredited with an "A" grade by  
NAAC in the First Cycle 2019

A Webinar on Insights into  
AI & Analytics Careers Post Covid - 19



**Mr. Mukesh Jain**  
CTO, Caggemini  
Date : Saturday 4<sup>th</sup> July 2020  
Time : 11.00 AM

Organized by  
Department of Computer Engineering

Convener  
Dr. Ashok Kanthe  
(Head, Dept. of Computer Engineering)  
PHCET, Rasayani

Faculty Coordinator  
Prof. Swapnil Waghmare  
Training & Placement Cell  
PHCET, Rasayani

**Registration Link**

<https://forms.gle/F9DktjK8GansxW1D9>

Join the  
Session on 

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## Webinar on “Ethical Hacking & Cyber Security”

In this Pandemic situation, Pillai’s HOC College of Engineering, Department of Computer Engineering has organized various Webinars for aspirants assembling with various interests in the field with a very high competitive spirit to participate and with the strong determination to include their achievements & accomplishments to their resumes. For the preceding academic year 2019-2020, Ms. Babita Bhagat & Ms. Srijita Bhattacharjee have organized a Webinar on “Microsoft Azure Cloud Technology” on 11th July, 2020. Webinar was conducted by Mr. Rizwan Shaikh. Ms. Saraswati has introduced the speaker that he has 11 years of experience in the areas of Ethical Hacking, Cyber Security, Information Security. He is Renowned Ethical Hacker & Founder and CTO @ PRISTINE INFOSOLUTION. 125 students & faculty have attended this event.



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## Webinar on “Microsoft Azure Cloud Technology”

|                        |   |
|------------------------|---|
| <b>Date &amp; Time</b> | 8th August, 2020                              |
| <b>Platform</b>        | Zoom Meeting                                  |
| <b>Resource Person</b> | Mr. Srinivas Kongara                          |
| <b>Coordinator</b>     | Ms. Babita Bhagat & Ms. Srijita Bhattacharjee |
| <b>Department</b>      | Computer Engineering                          |

In this Pandemic situation, Pillai’s HOC College of Engineering, Department of Computer Engineering has organized various webinars for aspirants assembling with various interests in the field with a very high competitive spirit to participants and with the strong determination to include their achievements & accomplishments to their resumes. For the preceding academic year 2019-2020, Ms. Babita Bhagat & Ms. Srijita Bhattacharjee have organized a Webinar on “Microsoft Azure Cloud Technology” on 8th August, 2020. Webinar was conducted by Mr. Srinivas Kongara. Ms. Neetu Pillai has introduced the speaker that he has 16 years of experience in the areas of cloud technologies, programming languages, Data access technologies and many more. He worked as an Advanced App. Engineering- Associate Manager at Accenture Pvt Ltd. 100 students & faculty have attended this event.



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## Webinar on “Oracle DB Components and PL/SQL”

|                        |   |
|------------------------|---|
| <b>Date</b>            | July 04, 2020   |
| <b>Platform</b>        | Google Meet   |
| <b>Resource Person</b> | Mr. Tejas Patkar, Oracle developer at ATOS-Syntel, Scotland, UK |
| <b>Coordinator</b>     | Mr. Rahul Kapse and Ms. Neetu Pillai                            |
| <b>Department</b>      | Computer Engineering  |

Pillai HOC College of Engineering and Technology, Department of Computer Engineering had successfully conducted an Online Webinar on “**Oracle DB Components and PL/SQL**” for students and faculty of PHCET.

Mr. Tejas Patkar, Oracle developer at ATOS-Syntel, was invited as the resource person for the webinar. Mr. Tejas has more than 5 years of experience and is working as a database developer at ATOS-Syntel. He is an alumni of PHCET 2014 batch.

Total 49 students and faculty have participated in the session. The expert commenced the session by explaining what is SQL, SQL Limitation, what is PL/SQL, its key features and major differences between SQL and PL/SQL. Later he explained different schema objects and their real time uses. He also explained different loops used in PL/SQL. He gave our students insights about current technologies used in industry and gave advice to students that they should increase their communication and adaptability to get good placements. The main objective of the webinar was to make participants aware about different Oracle database components used and basic introduction to PL/SQL which they understood by end of the session.

The session ended with a Question Answer session and vote of thanks. Feedback link was sent to the participants and E-Certificate was mailed to their registered mail ids. Positive feedback was received from participants.



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meet.google.com/tym-dczi-dwp

REC Tejas Patkar is presenting

Oracle Webinar

People (48) 45 Chat

Add people

- Neetu Pillai (You)
- ANIKET VAJIRE
- ANSHIKA SINHA
- ARPITA PATIL
- Avinash Vishwakarma
- BHARTI RATHOD
- BHUSHAN MOKAL
- DEEPTI SONAWANE
- DIPTI THOMBARE

The FOR LOOP (CURSOR)

```

PROCEDURE display_multiple_years (
start_year_in IN PLS_INTEGER
,end_year_in IN PLS_INTEGER
)
IS
BEGIN
FOR sales_rec IN (
SELECT *
FROM sales_data
WHERE year BETWEEN start_year_in AND end_year_in)
LOOP
display_total_sales (sales_rec.year);
END LOOP;
END display_multiple_years;

```

16

Rahul Kapse

PRAVEEN JAGTAP

JYOTHI WALIKAR

5:15 PM 7/4/2020

meet.google.com/tym-dczi-dwp

REC

Paused

Oracle Webinar

People (40) 16 Chat

Add people

- Neetu Pillai (You)
- AKSHAY DEKATE
- ANIKET VAJIRE
- Avinash Vishwakarma
- BHARTI RATHOD
- DEEPTI SONAWANE
- DEVANG PARATE
- GAYATRI MHATRE

PRAVEEN JAGTAP

Rahul Kapse

JYOTHI WALIKAR

DEEPTI SONAWANE

SHREYAS MANCHEKAR SE\_A

PRITI MAURVA SE\_A

LAVLESH SINGH SE\_A

VAISHNAVI SONAWANE

BHARTI RATHOD

PRATIKSHA GARAD

GAYATRI MHATRE

MAYANK DHARGAWE

SAMI AHMED has left the meeting

VINJI MHATKALKAR

Siddharth Shinde

Tejas Patkar

SHASHANK PANDEY

Turn on captions

Present now

A Webinar on\_in...mp4

webinar Introduc...docx

Show all

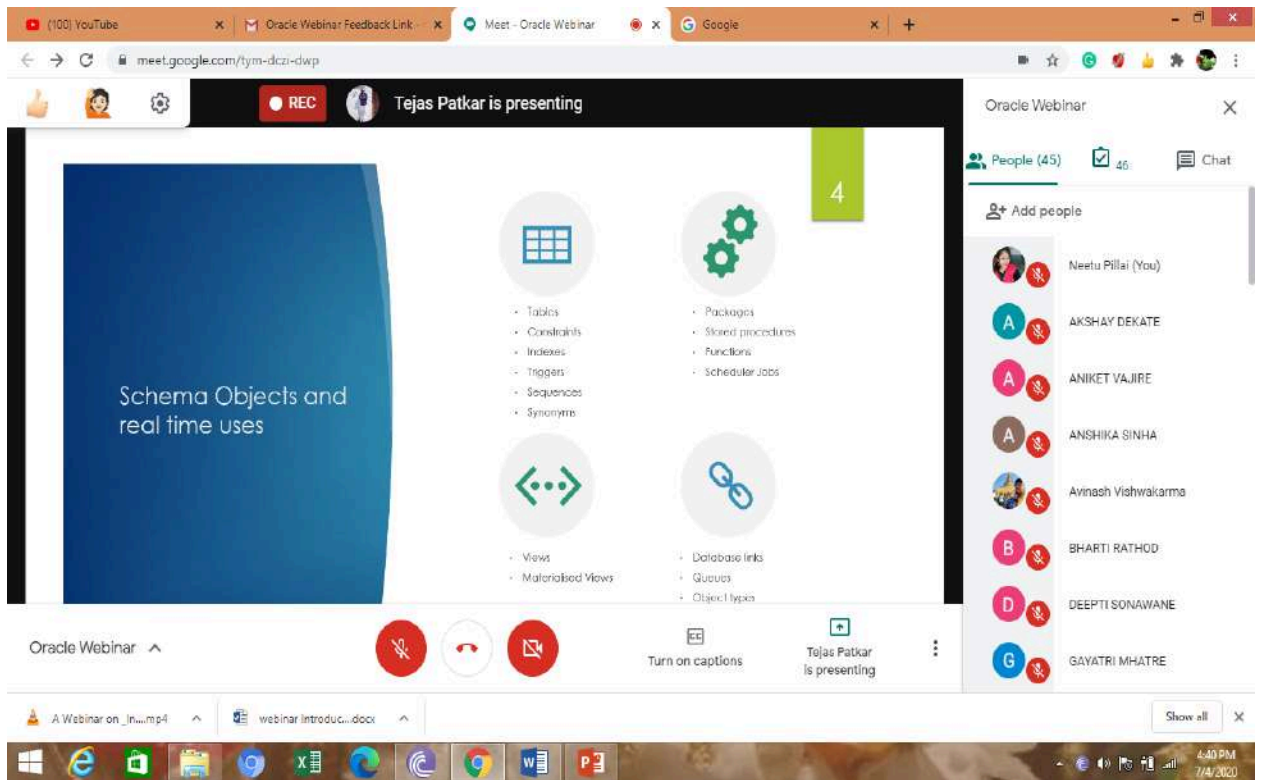
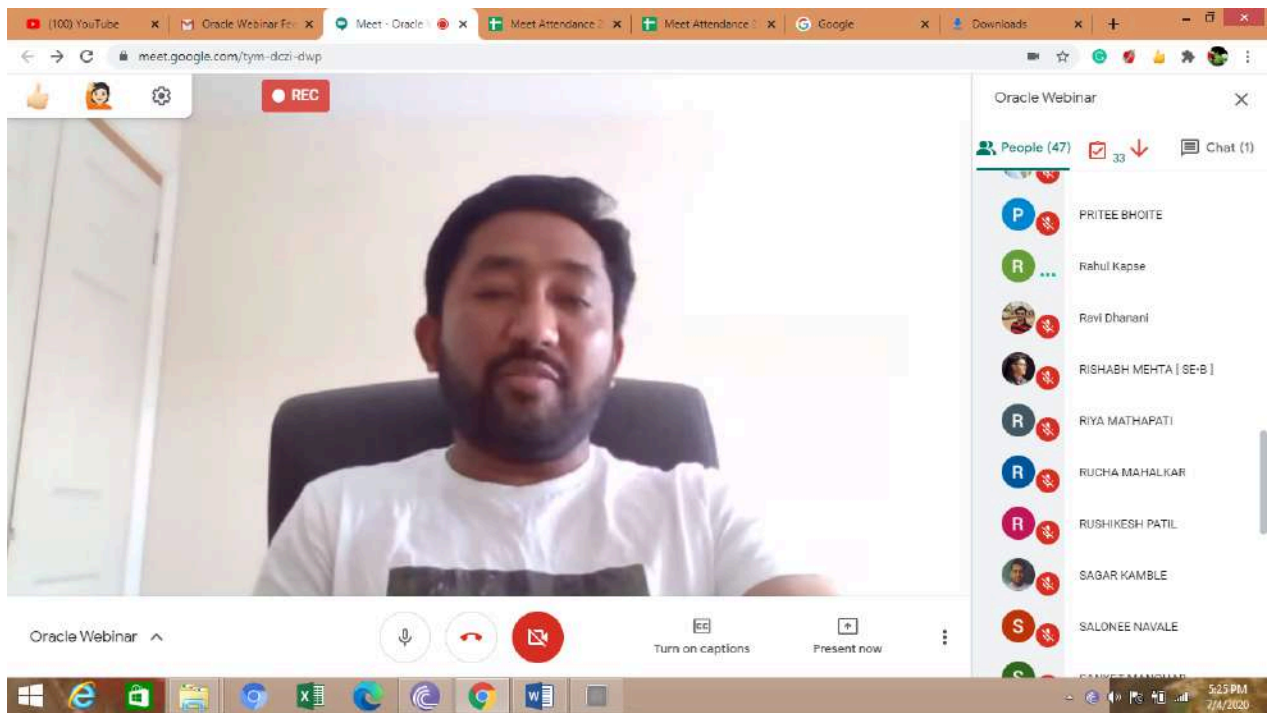
4:32 PM 7/4/2020

*Tejas Patkar*

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*Tejas Patkar*

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AICTE approved Short Term Training Program on "Composites : Fracture Toughness, NDE and Failure Analysis" by the Department of Mechanical Engineering PHCET, 17-11-2020 to 22-11-2020



## PROCEEDINGS OF ONE WEEK AICTE APPROVED



### SHORT TERM TRAINING PROGRAM ON

### COMPOSITES : FRACTURE TOUGHNESS, NDE & FAILURE ANALYSIS

STTP-1 : DURING NOVEMBER 17 - 22, 2020



Organized by

DEPARTMENT OF MECHANICAL ENGINEERING  
PILLAI HOC COLLEGE OF ENGINEERING AND TECHNOLOGY, RASAYANI

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You are cordially invited

for the Inaugural Function of the AQIP-STTP on  
**Composites : Fracture Toughness, NDE and Failure Analysis**  
on Tuesday, Nov 17, 2020 During 9:30 AM to 10:50 AM

**INAUGURAL PROGRAM SCHEDULE**

| Time             | Session Details  |
|------------------|--|
| 9:30 AM          | Welcome & Opening remarks by Prof. R.C. Prasad, Coordinator and Vice Chair, SFA Mumbai Chapter |
| 9:35 AM          | Presidential Address by Dr. K. M. Vasudevan Pillai, Chairman and CEO, MES                      |
| 9:50 AM          | Address by Mr. Sudhakar Bondde, Chairman ASM International, India Chapter                      |
| 9:55 AM          | Address by Dr. Hitendra Padalia, Secretary, Indian Society of Remote Sensing, ISRO, Dehradun   |
| 10:00 AM         | Address by Mr. Sanjay Nibandhe, Deputy Director ARAI Chakan, Chairman SAE western Region       |
| 10:05 AM         | Address by Dr. Bharat Kapgade, Assistant Director, IRMRA, Mumbai                               |
| 10:10 AM         | Address by Dr. Mathew T. J., Principal PHCET   |
| 10:15 - 10:45 AM | Inaugural Keynote Lecture By Dr. Priam Pillai, Chief Operating Officer, MES                    |

AQIP-STTP  
Organised By



Supported By



"Innovation in Design and Fabrication of Instruments for Testing Novel Materials"

Abstract : Mechanical Testing under Uniaxial & Biaxial stresses are vital for understanding the structure-property relationships and development of nanostructured novel materials for artificial muscles, biomedical devices, conducting polymers for sensors and energy storage devices. The development involves multidisciplinary approach including Sciences, Mechatronics & Computer Engineering. This presentation will cover new innovations in design, fabrication and development of compact, low cost equipment for testing plastics, rubbers, polymers and biological tissues that has gained significant importance in the recent past.

|               |                |
|---------------|----------------|
| 10:45 AM      | Vote of Thanks |
| 10:50-10:55   | TEA BREAK      |
| 10:55- 11:45  | Session I      |
| 11:45 - 12:30 | Session II     |

RVSP : Dr. R. C. Prasad  
Coordinator and Vice Chair, SFA Mumbai Chapter  
Email ID : rcpasad@mes.ac.in  
Mobile Number : 8433883165

Link for joining the Inaugural Function : <https://us02.web.zoom.us/j/32765444657?pwd=12345>

APTE APPROVED STIP ON "COMPOSITES-FRACTURE TOUGHNESS, NDE & FAILURE ANALYSIS"

STP - 1 : SCHEDULE

| Sl. No. | Sl. No. of STIP | Sl. No. of STIP | Sl. No. of STIP | Sl. No. of STIP | Sl. No. of STIP | Sl. No. of STIP |
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| 95      | 95              | 95              | 95              | 95              | 95              | 95              |
| 96      | 96              | 96              | 96              | 96              | 96              | 96              |
| 97      | 97              | 97              | 97              | 97              | 97              | 97              |
| 98      | 98              | 98              | 98              | 98              | 98              | 98              |
| 99      | 99              | 99              | 99              | 99              | 99              | 99              |
| 100     | 100             | 100             | 100             | 100             | 100             | 100             |

*(Signature)*

AICTE approved Short Term Training Program on "Composites : Fracture Toughness, NDE and Failure Analysis" by the Department of Mechanical Engineering PHCET, 18-01-2021 to 23-01-2021



PROCEEDINGS OF ONE WEEK AICTE APPROVED  
CERTIFICATE SHORT TERM TRAINING PROGRAM

ON

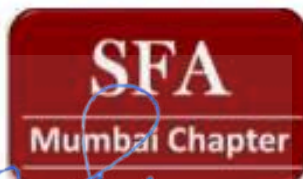
**COMPOSITES : FRACTURE TOUGHNESS,  
NDE & FAILURE ANALYSIS**

**DURING JANUARY 18 - 23, 2021**

Organized by

DEPARTMENT OF MECHANICAL ENGINEERING  
PILLAI HOC COLLEGE OF ENGINEERING AND TECHNOLOGY, RASAYANI

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*T. J. J. J.*

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## TWO WEEKS AICTE APPROVED CERTIFICATE STTP

ON

### COMPOSITES : FRACTURE TOUGHNESS, NDE & FAILURE ANALYSIS

|  |   |
|--|---|
| <b>Organized by</b>  | <b>Supported by</b>   |
| <br>PHCET, Rasayani | <br>SFA<br>Mumbai Chapter  |
| <br>AICTE, INDIA    | <br>S<sup>E</sup>INDIA<br>Society of Automotive Engineers INDIA |
|  | <br>ASM<br>INTERNATIONAL<br>INDIA CHAPTER                      |

| Date       | Time              | Program Itinerary  |
|------------|-------------------|--|
| 18/01/2021 | 09:00 to 09:45 AM | Inauguration   |
|            | 09:45 to 10:40 AM | <b>Dr. Prakash D.Trivedi, Gharda Chemicals Mumbai</b><br>Processing and Properties of High Performance Plastics  |
|            | 10:40 to 11:50 AM | <b>Dr. Virendra Kumar Gupta,</b><br><b>Head R&amp;D &amp; Senior VP, Reliance Research, Mumbai</b><br>Advanced Polymers & Composites for high performance Applications |
|            | 11:50 to 01:00 PM | <b>Dr. Rajkumar Kasilingam, Director, IRMRA Mumbai</b><br>Advances in Polymer Technology, Nanotechnology   |
|            | 01:00 to 02:10 PM | <b>Dr. Dattaji K. Shinde, Professor VJTI, Matunga, Mumbai</b><br>FEM of Nano engineered Composites & its Molecular Dynamics  |
|            | 02:00 to 03:00 PM | <b>Concluding Remarks by Session</b><br><b>Chairman and Feedback</b>   |

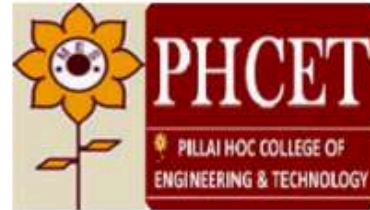


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AICTE approved Short Term Training Program on "Composites : Fracture Toughness, NDE and Failure Analysis" by the Department of Mechanical Engineering PHCET, 15-03-2021 to 20-03-2021



ONE WEEK AICTE APPROVED CERTIFICATE SHORT TERM TRAINING PROGRAM

ON

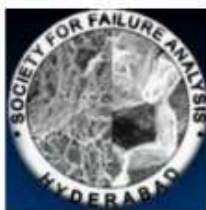
**COMPOSITES : FRACTURE TOUGHNESS,  
NDE & FAILURE ANALYSIS**

**DURING MARCH 15 - 20, 2021**

Organized by

DEPARTMENT OF MECHANICAL ENGINEERING  
PILLAI HOC COLLEGE OF ENGINEERING AND TECHNOLOGY, RASAYANI

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You are cordially invited  
for the Inaugural Function of the AQIP-STTP on  
Composites : Fracture Toughness, NDE and Failure Analysis  
on Monday, March 15, 2021 During 9:00 AM to 10:00 AM

**INAUGURAL PROGRAM SCHEDULE**

| Time             | Session Details  |
|------------------|--|
| 9:00 AM          | Welcome & Opening remarks by Prof. R.C. Prasad, Coordinator and Vice Chair, SFA Mumbai Chapter |
| 9:05 AM          | Presidential Address by Dr. Lata Menon, Deputy CEO, Rasayani Campus                            |
| 9:15 AM          | Address by Dr. Mathew T. J., Principal, PHCET  |
| 9:20 AM          | Address by Dr. H.M. Raje, Chairman, Institution of Engineers, Maharashtra State Centre         |
| 9:25 AM          | Address by Mr. Sudhakar Bondre, Chairman ASM International, India Chapter                      |
| 9:30 AM          | Address by Mr. Sanjay Nibhande, Deputy Director ARAI Chakan, Chairman SAE Western Region       |
| 9:35 AM          | Address by Dr. Rajkumar Kasilingam, Director, IRMBA, Mumbai                                    |
| 9:40 AM          | Address by Dr. Sameer Joshi, Chairman, Plastic Committee, MIRAI                                |
| 9:45 to 10:00 AM | Inaugural Lecture by Mr. Subodh Sharma, COO, Tins Rubber and Infrastructure Ltd.               |

On  
"Circular Economy and Sustainability through recycling of Tyres"  
Inaugural Lecture by Mr. Uthas Parthasarathy, Global Consultant, Waste Management, AFR & Co-processing

On  
"Circular Economy and Sustainability through recycling of Plastics"  
Vote of Thanks by Dr. G.V. Patil, Professor & Head, Dept. of Mechanical Engineering, PHCET

10:15 AM  
10:15-11:30 AM  
Session I

RVSP : Dr. R. C. Prasad  
Coordinator and Vice Chair, SFA  
Mumbai Chapter  
Email ID: rcpasad@mis.ac.in  
Mobile Number: 8433883165

Link for joining the Inaugural Function: <https://us02web.zoom.us/j/3276544465?pwd=12345>

Organised By



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*Prasad*

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AICTE APPROVED STTP ON "COMPOSITES: FRACTURE TOUGHNESS, NDE & FAILURE ANALYSIS

Co-host: Dr. G.V. Patil, Sunilising Rajput & Ameya More

Host for the event: Prof.R.C.Prasad

| Day 1 - 15th March 2021   | Day 2 - 16th March 2021  | Day 3 - 17th March 2021  | Day 4 - 18th March 2021  | Day 5 - 19th March 2021   | Day 6 - 20th March 2021  |
|---|--|--|--|---|--|
| <p><b>INAUGURAL FUNCTION</b></p> <p>Dr. Atul Kumar Rajar Dr. Prakash D. Trivedi - Charda Chemicals Mumbai</p> <p>High Performance Plastics for Composites</p>      | <p>Dr. Debodatta Ratra, Scientist F, NMRRL, Ambarnath</p> <p>Polymer Matrix Composites for Naval Applications</p>   | <p>Dr. Sunny Zafar, Assistant Professor, School of Engineering Indian Institute of Technology, Mumbai</p> <p>Manufacturing of polymer composites using microwave energy</p>  | <p>Dr. Ranaji Manoharan, Department of Mechanical &amp; Aerospace Engineering</p> <p>Adhesively Bonded Joints in Composite Structure</p>    | <p>Prof. P. J. Gurtugrabadi, Department of Aerospace Engineering, IIT Bombay</p> <p>Analysis of interlaminar cracking of composite laminates</p>   | <p>Dr. Gajaganesh Das, Director &amp; Mentor (Leadship) Tezant Imaginorium India Pvt. Ltd. 3D printing of Functionally Graded Materials- an Overview</p>  |
| <p>Dr. Vinod Kumar Gupta, Head R&amp;D &amp; Senior VP, Reliance Research, Mumbai</p> <p>Advanced Polymers &amp; Composites for High Performance Applications</p>  | <p>Dr. Shantanu C. Praburane, AGM, L&amp;T Mumbai</p> <p>Processing Composites at L&amp;T Defence - An Industry Perspective</p>                                   | <p>Dr. Dattaji K. Shinde, Professor VJTI, Matunga, Mumbai</p> <p>FEM of Nano engineered Composites &amp; its Molecular Dynamics</p>    | <p>Siba Mahapatra, Professor (HAG) Department of Mechanical Engineering IIT, Rourkela</p> <p>Parametric Appraisal of Mechanical and Wear Behaviour of FDM built Parts</p>   | <p>Prof. Jay B. Naganani, Department of Metallurgical Engineering and Materials Science, IIT Bombay</p> <p>Fracture Toughness Testing &amp; Integrity Assessment of Composites Across Multiple Length Scales</p>   | <p>Dr. A.S. Rao, Assistant Professor, VJTI, Matunga</p> <p>3D Printing</p>    |
| <p>Dr. Bharat Kappali, Dr. Rajalumar Kasilingam, IIRMPA Mumbai</p> <p>Testing of Tyres and Reinforced rubber Materials for Durability Assessment</p>              | <p>Srini, Kastinath Deodhar, Group Director, AKDE, DRDO</p> <p>R&amp;D Innovation on Hybrid Carbon-Glass Epoxy Gun Barrel for shoulder fired launcher</p>        | <p>Mr. Satyanarayan Jodabage, Founder, Jodabage Associates</p> <p>Plastic Moulding Processes and Industrial Applications</p>    | <p>Dr. Marmohan Das, Geol. Professor, VIT Nagpur</p> <p>Processing and Properties of Metal Foams</p>   | <p>Dr. Himanshu Pathak, Assistant Professor, School of Engineering Indian Institute of Technology, Mandi</p> <p>Computational modeling of composite materials: Fracture and Mean field Homogenisation study.</p>  | <p>Dr. Praveer Verma, Scientist- F, DMRDE, Karapur</p> <p>Failure Analysis of Polymer Matrix Composites</p>    |
| <p>Dr. R.C. Prasad/ Mr. Sunilising Rajput</p> <p>Technological Innovation &amp; Value Addition through Recycling &amp; Failure Analysis</p>                      | <p>Prof. Chandza Seelher, Yerramalli,</p> <p>Department of Aerospace Engineering, IIT Bombay</p> <p>Challenges in Design &amp; Manufacturing of Composites</p>  | <p>Mr. Rimzath B., DIAB, Sweden</p> <p>Fabrication of Sandwich Composites and it's Applications</p>    | <p>Dr. Shyamsunder M., Former Principal Scientist, GE Research Former Senior Scientist, IGCAR, Karagakkam</p> <p>Chairman, National Certification Board, ISKT</p> <p>NDE of Composites - Trends and Advances</p>  | <p>Dr. C. M. Manjunatha, Chief Scientist, NAL Bangalore</p> <p>Fatigue and Fracture of Composites</p>    | <p>Visit to Virtual Lab &amp; QUIZ TEST</p>   |
| Remarks by Session Chairman:  | Remarks by Session Chairman:   | Remarks by Session Chairman:   | Remarks by Session Chairman:   | Remarks by Session Chairman:  | VALEDICTORY ELABORATION  |



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## "Intellectual property protection and management in Academia", 26/04/2021

### Title of Talk: Intellectual property protection and management in Academia

**IIC Cell Organises** a Webinar on Intellectual Property Protection And Management In Academia by Dr. Padma Satish, Chief Technical Officer (CTO), Industrial Research and Consultancy (IRCC), IIT Bombay **On Monday, 26th April 2021 Time: 05:00 PM**

Zoom link:

Join Zoom Meeting: <https://pillai-edu-in.zoom.us/j/3276544465>

Meeting ID: 327 654 4465

### Speaker Profile:

Dr. Padmasatish works as the Chief Technical Officer (CTO) at the Industrial Research and Consultancy Centre (IRCC), Indian Institute of Technology Bombay. Her work comprises multifarious functions relating to management and techno-administration of all R&D related activities undertaken in the Institute, with a main focus on Intellectual Property (IP) management / technology transfer. These include management of technical matters in R&D administration, IPR management, IP policy activities and new initiatives, startup related, contracts management, liaison with industry, researchers, funding agencies and governmental bodies, and mentorship, amongst other facilitation processes towards promotion of R&D at IIT Bombay.

She has organized and given a number of invited talks in various IPR / technology transfer related seminars, national workshops, student orientations and to industry personnel, and has been a resource person for government related work.



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The session ended with Question Answer session and vote of thanks. Feedback link was sent to the participants. Positive feedback was received from participants and students suggested to organise more sessions like the same in the future.

Feedback by Participants:

- Session was well organized and gave good insights about Intellectual Property and Management in Academia.
- Speaker was excellent with thorough knowledge about IPR.
- Speaker cleared all doubts after the end of the session.
- Session will really help us in future regarding all the rights about patenting.

"Recycling Metals, Plastics & Scrap Tyres: Circular Economy Road map to Build a Green India" , 26/05/2021

Mahatma Education Society

Pillai HOC College of Engineering and Technology  
Department of Mechanical Engineering

**One Day Webinar on "Recycling Metals, Plastics & Scrap Tyres : Circular Economy Road map to Build a Green India"**

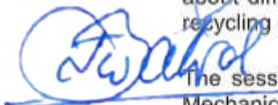
Materials , Manufacturing, Modeling & Failure Analysis (MMMF) & Mechanical Engineering Department had successfully conducted an Online Webinar on "**Recycling Metals, Plastics & Scrap Tyres : Circular Economy Road map to Build a Green India**" for students, faculty of PHCET & externals participants.

|                        |  |
|------------------------|--|
| <b>Date</b>            | May 26, 2021   |
| <b>Platform</b>        | Zoom   |
| <b>Resource Person</b> | Dr. R.C. Prasad, Professor, Department of Mechanical Engineering |
| <b>Coordinator</b>     | Dr. R.C. Prasad  |
| <b>Department</b>      | Mechanical Engineering   |

Dr. R.C. Prasad is retired professor of IIT Bombay & now he is working with Pillai HOC College of Engineering & technology, Rasayani as a Professor. He has published several papers on materials, failure analysis of metals and nonmetals He also conducted several workshops on Composites: Fracture Toughness, NDE & Failure Analysis, Corrosion Fatigue, Fracture and Failure Analysis & Structural Integrity and Failure Analysis of Welded Structures Using Fracture Mechanics. He has delivered several lectures on different platforms.

Total 54 faculty members have participated the session. The Session started with welcome of speaker by Dr. G.V Patil, Head of Mechanical Engineering, & then commenced the session by speaker by explaining the concept of recycling & need of recycling. He then explained about recycling of metals, its procedure, recycling of plastics & tyres. He talked about different perspective of throwing plastic in the ocean. He suggested some ideas for recycling of these materials.

The session ended with Question Answer and vote of thanks by Dr. G.V Patil, Head of Mechanical Engineering. Feedback link was sent to the participants and E-Certificate was mailed to their registered mail ids. Positive feedbacks were received from participants.



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## Impact Lecture Series Workshop on

ONLINE ONE DAY NATIONAL WORKSHOP

On

**“Recycling Metals, Plastics & Scrap Tyres : Circular Economy  
Road map to Build a Green India”**

21 June, 2021

&

**ONLINE STATE LEVEL HACKATHON 2021**



Value Chain: Upstream, Middlestream, Downstream



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# "Adsorption Refrigeration Systems: Recent Advances", 28-8-2020



MAHATMA EDUCATION SOCIETY'S  
Pillai HOC College of Engineering, Rasayani



## Adsorption Refrigeration System: Recent Advances

Event Date: 28<sup>th</sup> August 2020

Department: Department of Applied Science & Humanities & Department of Mechanical Engineering

Type: Webinar

Theme: Technical Interaction

Organizers: Dr. M.D.Nadar & Mr. K.S.Anish

Speakers: Dr.E.Anil Kumar, Associate Professor, Department of Mechanical Engineering, IIT

**Tirupati**

Sponsoring/Collaborating Agencies: Nil

No of Students Participated: 64

No of Faculty Participated: 35

Expenditure: Nil

Description: The webinar started with introduction of Adsorption systems and covered following points:

1. Pure Substances
2. Phase change process of pure substances
3. Vapour compression system
4. Why an alternative to VCRS?
5. Principle of Vapour Absorption system
6. Comparison of Vapour compression and absorption system
7. Solid-gas sorption process

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- 8. Characterization of metal hydrides
- 9. Metal hydrides cooling system
- 10. Concluding Remark

Pictures with proper caption:

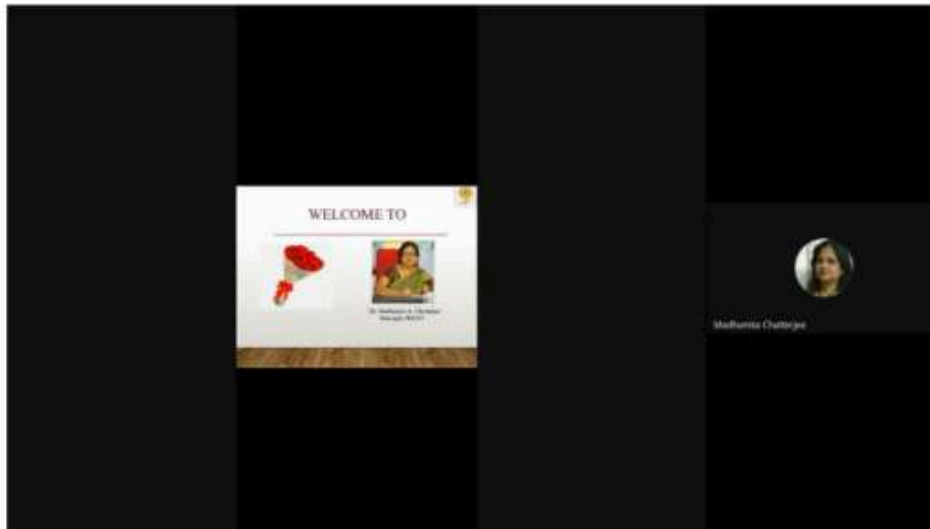


Fig 1. Dr. Madhumita Chatterjee welcoming the guest

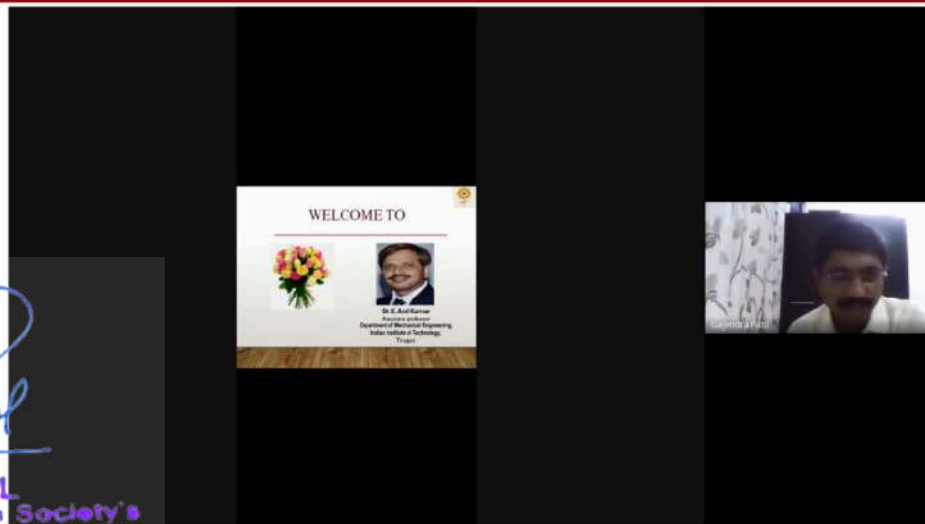



Fig 2. Dr. Gajendra V Patil welcoming the guest.

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**Adsorption Refrigeration Systems:  
Recent Advances**

Dr. E. Anil Kumar  
Associate Professor  
anil@iittp.ac.in



Department of Mechanical Engineering  
Indian Institute of Technology Tirupati




Fig 3. Dr. E. Anil Kumar addressing the webinar.



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*Pillai*

ACCREDITED WITH 'A' GRADE BY NAAC IN FIRST CYCLE 2019  
AND RE-ACCREDITED BY NBA FOR MECHANICAL AND COMPUTER ENGINEERING 2020

As Part of Golden Jubilee lecture series of Mahatma Education Society

**Department of Applied Science & Humanities**

**&**

**Department of Mechanical Engineering**

Presents a webinar on

**ADSORPTION  
REFRIGERATION SYSTEMS :  
RECENT ADVANCES**

**At 28th August, 2020 (Friday)**

**From 5:00PM**

**Event Coordinators:**

- **Dr. M.D.Nadar**  
Email: [mdnadar@mes.ac.in](mailto:mdnadar@mes.ac.in)
- **Mr K.S.Anish**  
Email: [ksanish@mes.ac.in](mailto:ksanish@mes.ac.in)



**Dr.E. Anil Kumar**

Associate Professor, Department of Mechanical Engineering  
Indian Institute of Technology, Tirupati



Click the icon for  
Google meet

.....  
**Dr. Manavendra Vashistha**  
HOD, Applied Science & Humanities

**Dr. Gajendra V. Patil**  
HOD, Mechanical Engineering

**Dr. Madhumita Chatterjee**  
Principal



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## Webinar on Create Jobs, Generate Value & Create Health, 01/08/2020



MAHATMA EDUCATION SOCIETY'S  
Pillai HOC College of Engineering, Rasayani



### Create Jobs, Generate Value & Create Health

Event Date: 1<sup>st</sup> August 2020

Department: Mechanical Department

Type: Webinar

Theme: Interaction with an Entrepreneur

Organizers: Dr. G. V. Patil & Mr. Sunil Singh Rajput

Speakers: Mahatma Education Society Alumni,

- 1) Mr. Sadanand Shetty, Director, Crystal Industrial Syndicate Pvt. Ltd.
- 2) Mr. Ronald D'Souza, Managing Partner, Bluechem Industries, Dubai
- 3) Ms. Anagha Bhide, Director, Bhide Institute of Testing Technology Pvt. Ltd.

Sponsoring/Collaborating Agencies: Bhide Institute of Testing Technology Pvt. Ltd.

No of Students Participated: 108

No of Faculty Participated: 2

Expenditure: Nil

Social Media Link:

Description: The webinar started with welcome of all speakers and Principal, Dr. Madhumita Chatterjee. Then initially talk was delivered by Mr. Sadanand Shetty who is Director of Crystal Industrial Syndicate Pvt. Ltd. He gave insights all about entrepreneurship. He shared his all experience with students. Then in second part Mr. Ronald D'Souza gave talk about entrepreneurship. He joined the session from abroad(Dubai). Then at the end, talk was delivered by Ms. Anagha Bhide who is director of Bhide Institute of Testing Technology. Then session

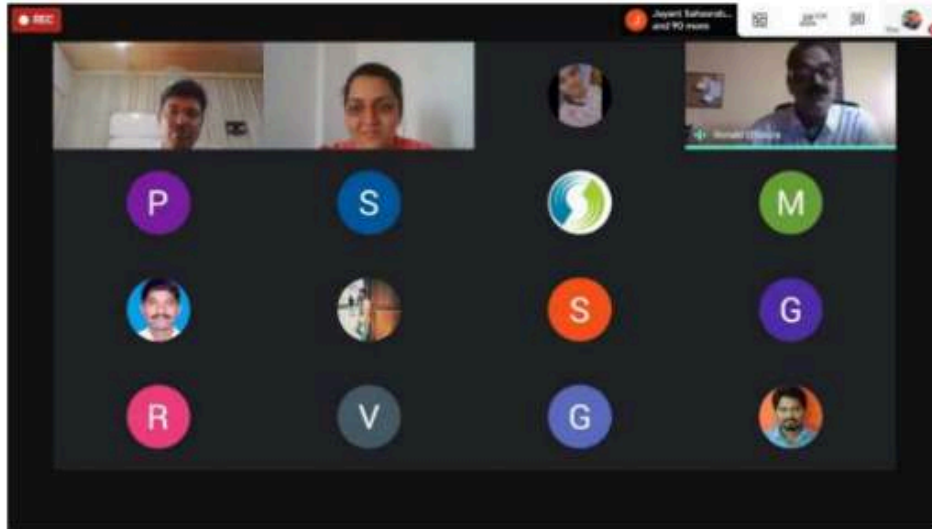
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ended with vote of thanks by Head of Department Dr. G.V. Patil. Then feedback link shared with all participants and certificates issued to all eligible participants.



Resource Person addressing students

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Event Brochure/Flyer:

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AND RE-ACCREDITED BY NBA FOR MECHANICAL AND COMPUTER ENGINEERING 2020

As Part of Golden Jubilee lecture series of Mahatma Education Society  
Department of Mechanical Engineering

**PHCET**  
PILLAI HOC COLLEGE OF  
ENGINEERING & TECHNOLOGY

**50**

Presents a webinar on  
**CREATE JOBS, GENERATE VALUE,  
CREATE WEALTH**

**ON: SATURDAY, 1ST AUGUST 2020**  
**FROM 11:00 AM - 1:00 PM**

Event Coordinator:  
• Mr. Sunil Singh Rajput  
Email: srajput@mes.ac.in

**SPEAKERS:**

Click the Icon for  
Google meet

|  |   |  |
|--|---|--|
| <br><b>Mr. Sadanand Shetty</b><br>Director: Crystal Industrial<br>Syndicate Pvs.Ltd | <br><b>Mr. Ronald D'Souza</b><br>Managing Partner: Bluechem<br>LLC,Dubai | <br><b>Mrs. Anagha Bhide</b><br>Director: Bhide's Institute of<br>Testing Technology Pvt. Ltd. |
| <b>Dr. Gajendra V Patil</b><br>HOD, Mechanical Engineering<br>PHCET, Rasayani  | <b>Dr. Madhumita Chatterjee</b><br>Principal,<br>PHCET Rasayani   |  |

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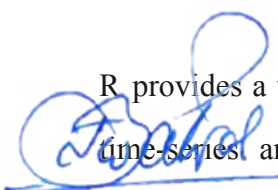
### **Workshop on “R Programming”**

Pillai HOC College of Engineering and Technology successfully conducted an Online Workshop on “R Programming” organized by the Department of Information Technology on 24th April, 2021 for Teaching Staff and Students of PHCET. 81 members participated in the workshop.

|                        |  |
|------------------------|--|
| <b>Date</b>            | 24th April, 2021                           |
| <b>Platform</b>        | Zoom Link                                  |
| <b>Resource Person</b> | Prof AnupKhunte, KGCE Karjat               |
| <b>Coordinator</b>     | Mrs. Farheen Talib, Mr. Shidesh Khanvilkar |

R is a language and environment for statistical computing and graphics. It is a GNU project which is similar to the S language and environment which was developed at Bell Laboratories (formerly AT&T, now Lucent Technologies) by John Chambers and colleagues. R can be considered as a different implementation of S. There are some important differences, but much code written for S runs unaltered under R.

R provides a wide variety of statistical (linear and nonlinear modelling, classical statistical tests, time-series analysis, classification, clustering, ...) and graphical techniques, and is highly extensible. The S language is often the vehicle of choice for research in statistical methodology and R provides an Open Source route to participation in that activity.



One of R's strengths is the ease with which well-designed publication-quality plots can be produced, including mathematical symbols and formulae where needed. Great care has been taken over the defaults for the minor design choices in graphics, but the user retains full control.

R is available as Free Software under the terms of the Free Software Foundation's GNU General Public License in source code form. It compiles and runs on a wide variety of UNIX platforms and similar systems (including FreeBSD and Linux), Windows and MacOS.



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## **Two Days Workshop on Fundamentals of Accelerated Computing with CUDA C/C++**

**Date: 16<sup>th</sup> and 17<sup>th</sup> April 2021**

**Organized by *Department of Information Technology***

The NVIDIA Deep Learning Institute (DLI) and Pillai HOC College of Engineering and Technology, Rasayani, have organized a Two days Workshop on "Fundamentals of Accelerated Computing with CUDA C/C++ ". Workshop is organized by the Department of Information Technology; this is scheduled on 16th and 17th April 2021 exclusively for verifiable academic students, staff, and researchers.

In this Workshop 51 participants registered and actively participated in the course.

14 participants successfully completed and received certificates from NVIDIA as they have cleared the final test of Fundamentals of Accelerated Computing with CUDA C/C++ by NVIDIA(DLI). This workshop was conducted online with google meet mode.

This Workshop is practical oriented and beneficial to UG and PG students. to recognize their subject matter competency and support professional career growth.

The objective of this workshop is to learn fundamental tools and techniques for accelerating C/C++ applications to run on massively parallel GPUs with CUDA®.

The workshop also looks at optimizing memory migration between the CPU and GPU accelerator, and implementing the workflow.

The course further examines the actions and processes that can be used to Accelerate Applications with CUDA C/C++

NVIDIA DLI offers hands-on training for developers, data scientists, and researchers looking to solve challenging problems with deep learning and accelerated computing.

### **About This Workshop:**

This workshop teaches the fundamental tools and techniques for accelerating C/C++ applications to run on massively parallel GPUs with CUDA®. You'll learn how to write code, configure code parallelization with CUDA, optimize memory migration between the CPU and GPU accelerator, and implement the workflow that you've learned on a new task - accelerating a fully functional, but CPU-only, particle simulator for observable massive performance gains. At the end of the workshop, you'll have access to additional resources to create new

GPU-accelerated applications on your own.

### **Learning Objectives:**

At the conclusion of the workshop, you'll have an understanding of the fundamental tools and techniques for GPU-accelerated C/C++ applications with CUDA and be able to:

- Write code to be executed by a GPU accelerator
- Expose and express data and instruction-level parallelism in C/C++ applications using CUDA
- Utilize CUDA-managed memory and optimize memory migration using asynchronous prefetching
- Leverage command line and visual profilers to guide your work
- Utilize concurrent streams for instruction-level parallelism
- Write GPU-accelerated CUDA C/C++ applications, or refactor existing CPU-only applications, using a profile-driven approach

### **Workshop Content:**

- ❖ Accelerating Applications with CUDA C/C++
- ❖ Managing Accelerated Application Memory with CUDA Unified Memory and nsys
- ❖ Asynchronous Streaming, and Visual Profiling for Accelerated Applications with CUDA C/C++

### **Prerequisites:**

Basic C/C++ competency, including familiarity with variable types, loops, conditional statements, functions, and array manipulations. No previous knowledge of CUDA programming is assumed.

### **Certificate:**

Upon successful completion of the assessment, participants will receive an NVIDIA DLI certificate to recognize their subject matter competency and support professional career growth.

At the end of the workshop feedback is collected from the participants.

The program concluded with a Vote of Thanks speech by Dr. J.E. Nalavade Head of the IT Department.

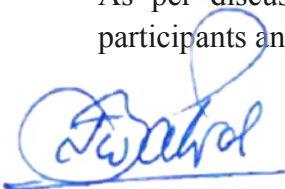
In this Workshop participants actively participated and successfully completed the course.

Workshop conducted through online mode using google meet application.

Group Photograph of two days' Workshop is taken through screenshots of the online meet.

Participant's Feedback:

As per discussion with the participants, the topic covered was appreciated by most of the participants and requested to arrange such workshops in the future also.



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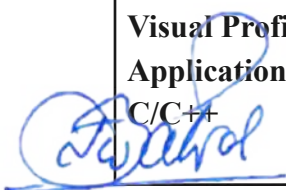
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*Schedule of Workshop:*

| TOPIC   | DESCRIPTION   |
|---|---|
| <b>DAY 1</b>  |   |
| <b>Introduction</b>   | <ul style="list-style-type: none"> <li>&gt; Meet the instructor.</li> <li>&gt; log in at <a href="https://courses.nvidia.com/">courses.nvidia.com/</a></li> </ul>                                   |
| <b>Accelerating Applications with CUDA C/C++</b>  | Learn the essential syntax and concepts to be able to write GPU-enabled C/C++ applications with CUDA:   |
|   | <ul style="list-style-type: none"> <li>&gt; Write, compile, and run GPU code.</li> <li>&gt; Control parallel thread hierarchy.</li> <li>&gt; Allocate and free memory for the GPU.</li> </ul>       |
| <b>Break</b>  |   |
| <b>Managing Accelerated Application Memory with CUDA C/C++</b>                                  | Learn the command line profiler and CUDA managed memory, focusing on observation-driven application improvements and a deep understanding of managed memory behavior:                               |
|   | <ul style="list-style-type: none"> <li>&gt; Profile CUDA code with the command line profiler.</li> <li>&gt; Go deep on unified memory.</li> <li>&gt; Optimize unified memory management.</li> </ul> |
| <b>DAY 2</b>  |   |
| <b>Managing Accelerated Application Memory with CUDA C/C++</b>                                  | Learn the command line profiler and CUDA managed memory, focusing on observation-driven application improvements and a deep understanding of managed memory behavior:                               |
|   | <ul style="list-style-type: none"> <li>&gt; Profile CUDA code with the command line profiler.</li> <li>&gt; Go deep on unified memory.</li> <li>&gt; Optimize unified memory management.</li> </ul> |
| <b>Break</b>  |   |
| <b>Asynchronous Streaming and Visual Profiling for Accelerated Applications with CUDA C/C++</b> | Identify opportunities for improved memory management and instruction- level parallelism:   |
|   | <ul style="list-style-type: none"> <li>&gt; Profile CUDA code with Nsight Systems.</li> <li>&gt; Use concurrent CUDA streams.</li> </ul>  |



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|  |   |
|--|---|
| <b>Final Review</b>                      | <ul style="list-style-type: none"> <li>&gt; Review key learnings and wrap up questions.</li> <li>&gt; Complete the assessment to earn a certificate.</li> <li>&gt; Take the workshop survey.</li> </ul> |
| <b>Duration:</b>                         | 2-3 Days  |
| <b>Assessment type:</b>                  | Code-based  |
| <b>Certificate:</b>                      | Upon successful completion of the assessment, participants will receive an NVIDIA DLI certificate to recognize their subject matter competency and support professional career growth.                  |
| <b>Prerequisites:</b>                    | Basic C/C++ competency, including familiarity with variable types, loops, conditional statements, functions, and array manipulations. No previous knowledge of CUDA programming is assumed.             |
| <b>Languages:</b>                        | English, Japanese, Chinese  |
| <b>Tools, libraries, and frameworks:</b> | Nsight Systems  |

***Speaker Profile:***

Prof. Sandeep Mane Assistant Professor, Department of Computer Science and Engineering Rajarambapu Institute of Technology, Rajaramnagar Dist. Sangli. Maharashtra, India – 415414. Mobile No: +91-8208298982, WhatsApp No. +91-9403510475 manesandip82@gmail.com · <https://www.linkedin.com/in/prof-sandeep-mane-06578618> ·

Prof. Sandeep Mane is currently working as Assistant Professor in the Department of Computer Engineering, K.E. Society's Rajarambapu Institute of Technology (An Autonomous Institute affiliated to Shivaji University, Kolhapur) Rajaramnagar, Dist. Sangli, Maharashtra, India. He is NVIDIA DLI University Ambassador and DLI Certified Instructor to teach Fundamentals of Accelerated Computing with CUDA C/C++. He is In-charge of GPU Education Center, awarded by NVIDIA Corporations since 2013-14. He has more than 10 years of Teaching and Research experience in the areas of Nature Inspired Optimization Algorithms, Combinatorial Optimization Problem Solving, Parallel Algorithm Design and Programming. He knows and uses Multi-core and Many-core Programming languages and packages like OpenMP, MPI, and CUDA C/C++. He has taught courses like Software engineering, Applied Algorithms, Optimization Techniques, Parallel Algorithms and Design, GPU Computing and Programming to undergraduate and graduate students.

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Department of Information Technology  
Pillai HOC College of Engineering and Technology, Dist. Raigad  
(Maharashtra)  
In Collaboration with NVIDIA Deep Learning Institute



Organized

## Two days Workshop on Fundamentals of Accelerated Computing with CUDA C/C++

Prof. Sandeep Mane

NVIDIA DLI Certified Instructor

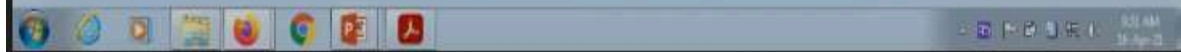
Dept. of CSE

Rajarambapu Institute of Technology, Rajaramnagar

(An Autonomous Institute affiliated to Shivaji University, Kolhapur, Maharashtra)

[manesandip92@gmail.com](mailto:manesandip92@gmail.com)

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## Schedule

Day 1

- Fundamentals of accelerated Computing using CUDA C/C++
- CUDA Programming execution model and thread organization.
- CUDA visual and command line profiling with vector addition.

Day 2

- CUDA visual and command line profiling with vector addition.
- Case studies vector addition and unified memory.
- CUDA unified memory and CUDA streams.
- Final Project.

16-04-2021

Fundamentals of Accelerated Computing with CUDA  
C/C++



2

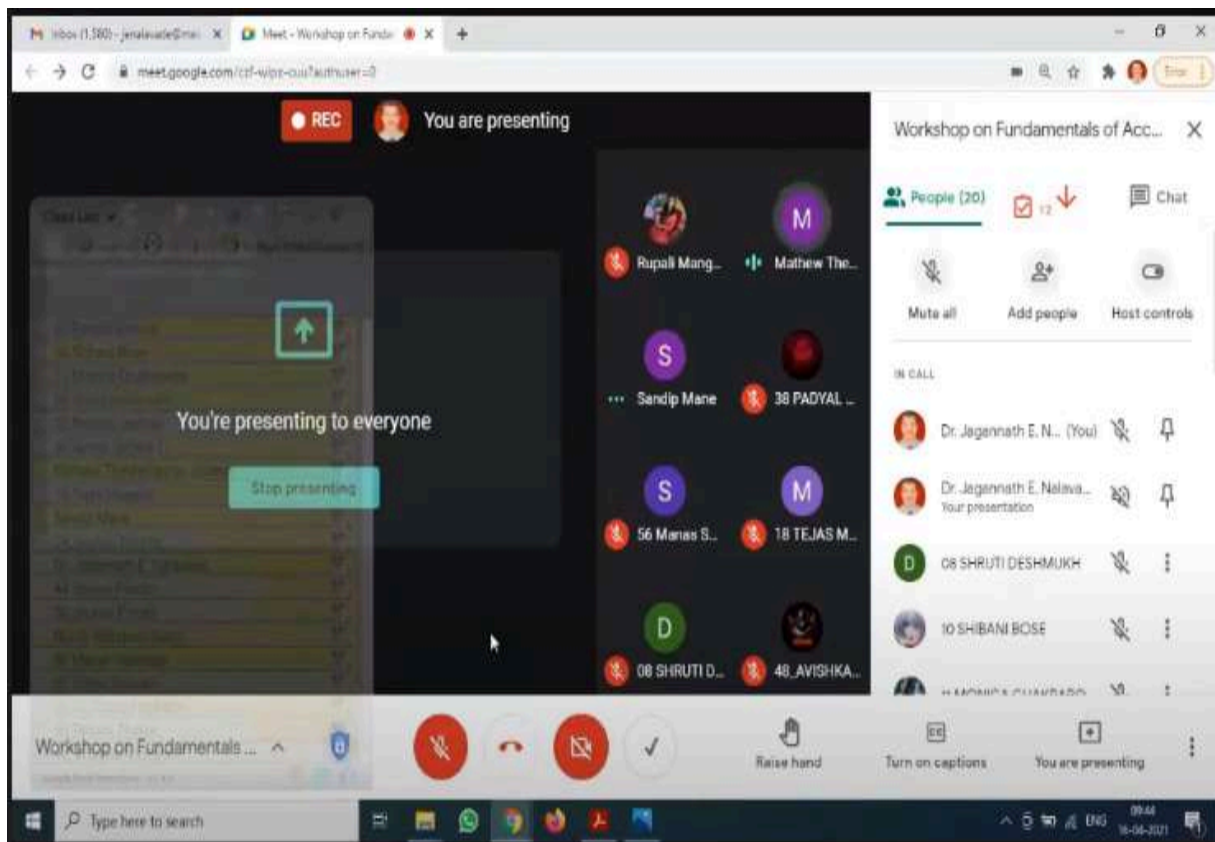
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# Sequential vs Parallel

## Scenario 1



**Task:** Digging a 20 meter big hole  
**Resources:** 1 Worker, 1 shovel  
**Efficiency:** 1 meter per hour  
**Time:** 20 Hrs.



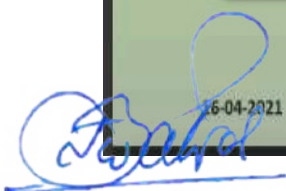
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C/C++

8



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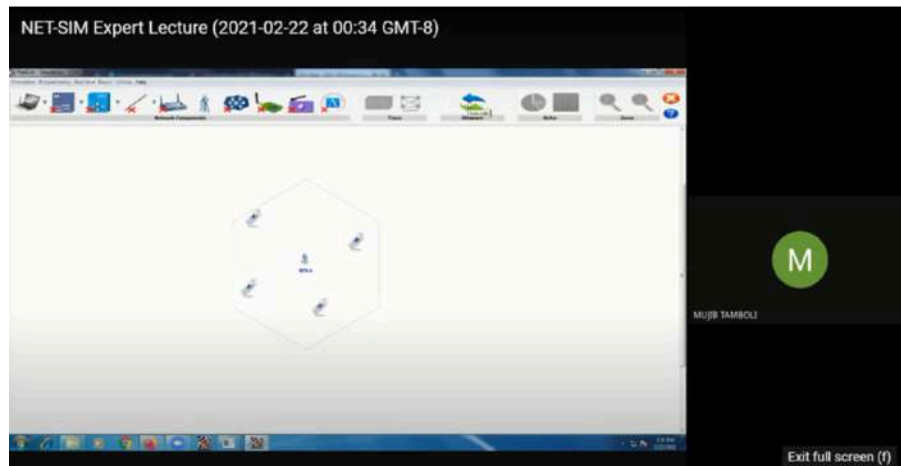
## Workshop on “NETSIM A Network Simulator Tool”

A webinar on “NET SIM – A network Simulator” was organized under IETE Student Forum by the Department of Electronics and Telecommunication Engineering for SE, TE and BE students & participants on 22<sup>nd</sup> Feb, 2021. Dr. Mujib Tamboli, Assistant Professor AIKTCE was invited as guest speaker for this session.

The NetSim is an end-to-end, full stack, packet level network simulator and emulator. It provides network engineers with a technology development environment for protocol modelling, network R&D and military communications. The behavior and performance of new protocols and devices can be investigated in a virtual network within NetSim at significantly lower cost and in less time than with hardware prototypes.

Dept ISF Coordinator Mr. Pratik Mhatre organized this event. The speaker explained the usage of this software and different scenarios which can be helpful in studying technologies like Bluetooth, Zig-Bee, and Mobile Communication. The QA part of the session was really fruitful as students and faculty members (teaching and non-teaching) took part actively and cleared their queries. Session ended with a vote of thanks by the Head of the Department, Dr. Mansi Subhedar.

Session feedback submitted by participants has confirmed the effectiveness of the session.



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## **Workshop on Antenna Design Thinking**

The Department of Electronics and Telecommunication has set up a MoU with ZinZino Teletech on 7<sup>th</sup> Dec 2020. The scope covers following points:

1. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. PHCET will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with ZinZout Teletech, India
2. It will provide Project Based Learning to the participants on the emerging technologies in order to bridge the skill gap and make them industry ready through Internship and Value Addition Program.
3. ZinZout Teletech will also assist PHCET with Profile Development of participants to get appropriate job Leads and embark upon Professional Career Goals.
4. It will also extend the necessary support to deliver guest lectures to the students of the First Party on the technology trends and in-house requirements.

Under this MoU, a webinar was organized one day on “Antenna Design Thinking using CST Microwave Studio” on Feb 28, 2021 under IETE student’s forum [ISF] for the students of PHCET and other engineering colleges. 350 students & faculty across India participated in the workshop. I Mr Avichal Sharma, CEO ZinZout Teletech conducted this webinar. Fundamentals of Antenna Design Thinking Antenna Design Lifecycle, UWB, MIMO, Metamaterial & Reconfigurable Technology, and Career Opportunities in Antenna & RF Domain were the overall contents of this webinar.



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## **Webinar on “Image Processing Applications in Forensic Face Sketch Recognition”**

A webinar on “Image Processing Applications in Forensic Face Sketch Recognition” was organized by the Department of Electronics and Telecommunication Engineering under the special Interest group on “Signal Processing” on May 11, 2021 at 10.30. Ms. Rekha Dhawan and Ms. Pooja Shukre took initiative to organize this webinar. Dr Gargi Phadke, Professor, Department of Instrumentation Engineering, Ramrao Adik Institute of Technology, Nerul Navi Mumbai, was the resource person invited for the Program. She has received “Best Teacher Award 2019” by the student unit council, RAIT. She has been awarded consecutive three years (Year 2013, 2014, 2015) for R&D activity by RAIT, Nerul. Her areas of interests include Image processing, Control system, Computer Vision.

Around 40 participants attended the session. The speaker explained the topic very precisely and students also found it very interesting. She also gave the overview of emerging research areas in Forensic Image Processing which will definitely help third year students to choose their final year projects. Students and faculty interacted with her and cleared their doubts. Session ended with the vote of thanks to the guest.



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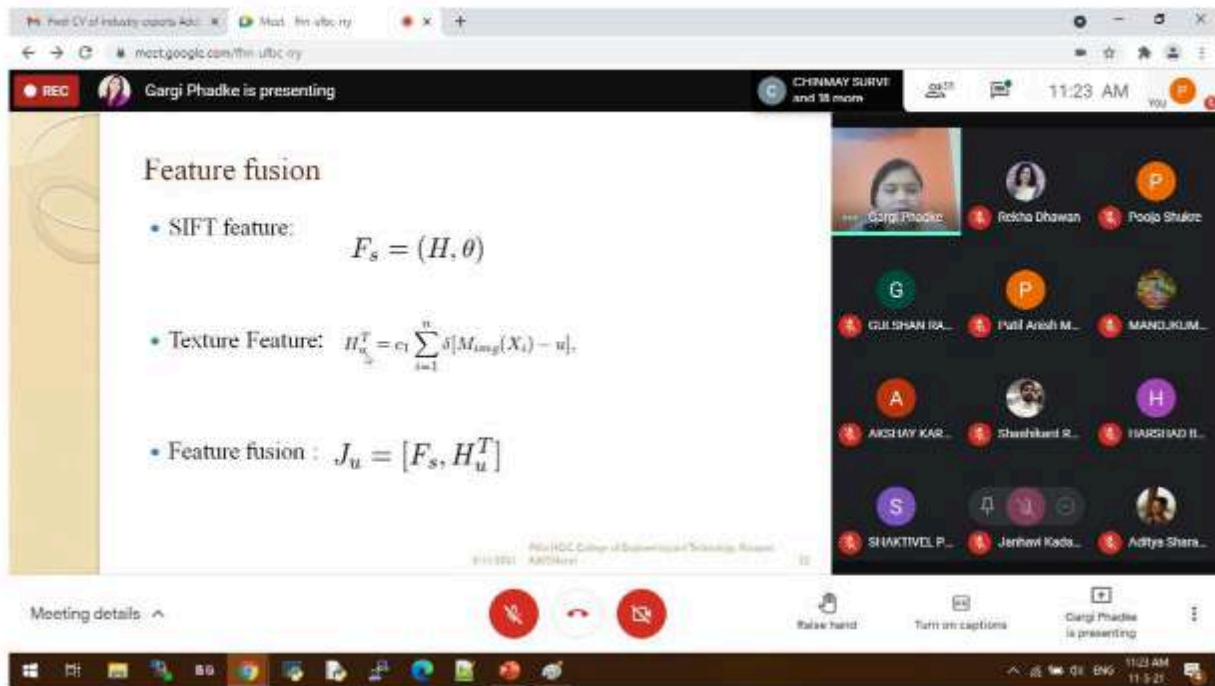
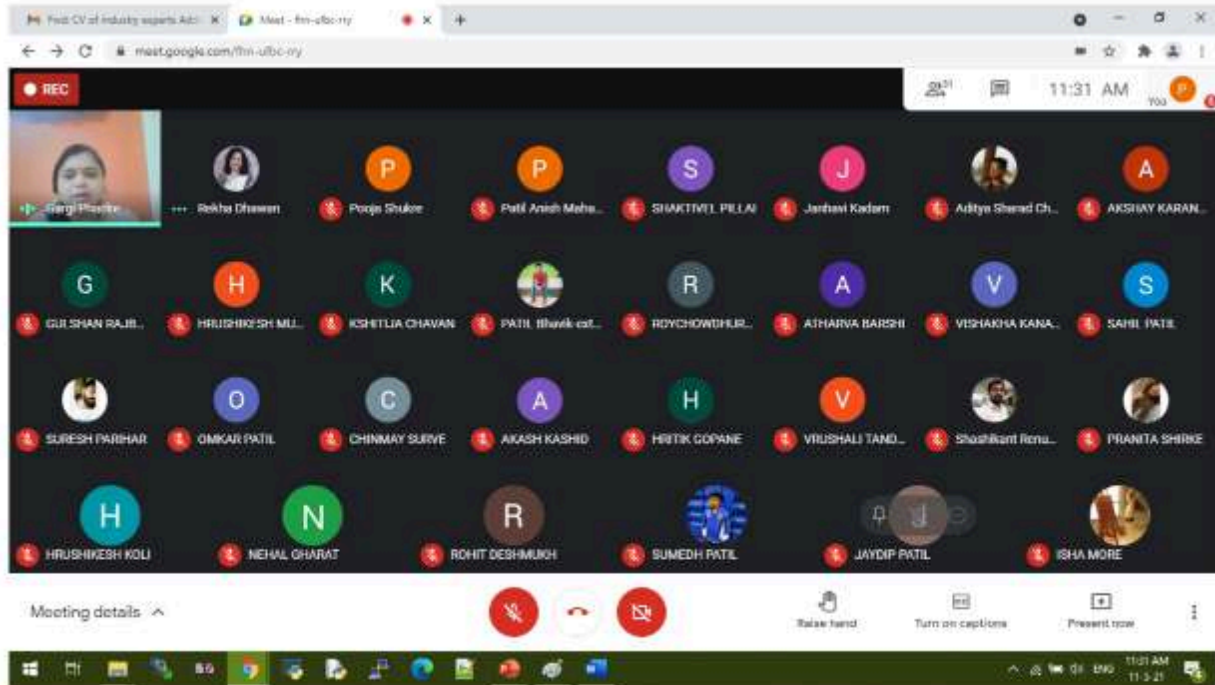
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*Gargi Phadke*

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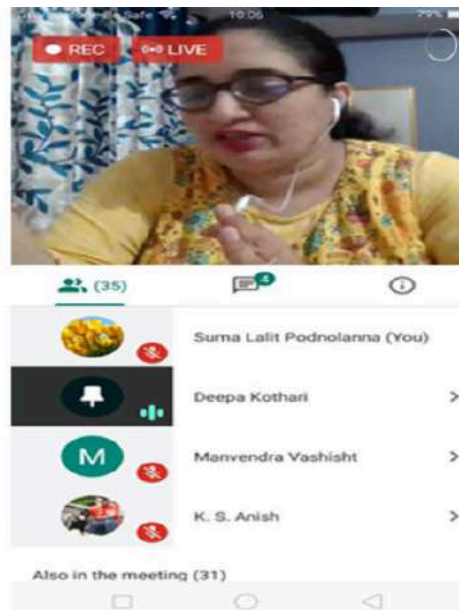
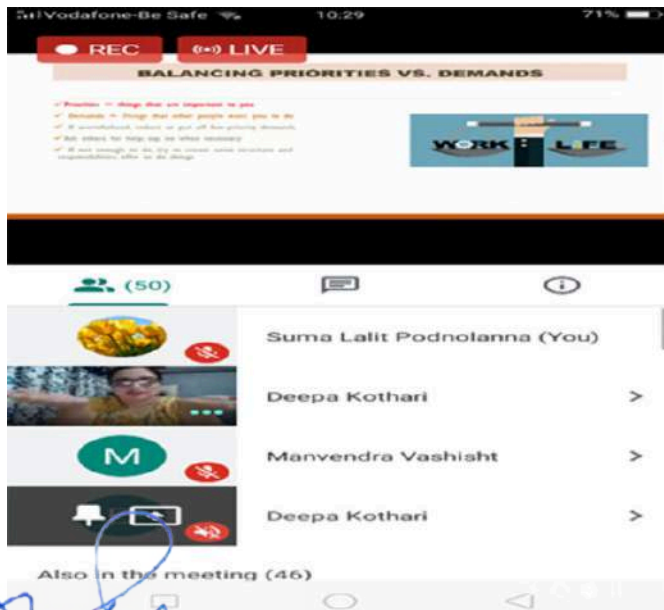
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PHCET > Humanities Seminars & Workshops > Webinar on "Interpersonal Skills"

Dr. Manvendra Vashishtha, Head, Applied Sciences and Humanities Department,  
Ms. Suma Lalit, Event Coordinator



Department of Applied Sciences and Humanities organized a Webinar on "Interpersonal Skills" 18th July, 2020 at 10.30 a.m. through virtual Google Meet platform. Prof. Deepa Kothari, Department of Psychology, St Agnes center of PG studies and research, Mangalore. Was the resource person. The event witness 95 participants on Google Meet and more than 100 participants on live streaming from different departments of PHCET. The participants gained a deep insight on various aspects of interpersonal skills such as Time management, leadership, negotiation, corporate ethics and culture, Decision making and teamwork. Students acquired a true sense of application of these various aspect of Interpersonal skills through real life scenario that was distinctly explained by the speaker. Prof. Deepa Kothari also introduced high industry case studies to the participants on soft skills that made the session truly informative and interactive. It undoubtedly helped students to enhance their interpersonal skills to corporate work culture.



*Suma Lalit*

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PHCET > Humanities Seminars & Workshops > Webinar on "Energy Efficient and Green Energy Technologies"

The webinar started with introduction to sustainable development goals and covered following points:

1. Key Role of Energy
2. Energy Contradiction
3. World carbon emission
4. Global Fuel Consumption Scenario
5. India Energy Scenario
6. Installation of various renewable energy equipment's in India
7. Solar energy and different ways to harness it
8. Future energy system – Hydrogen Fuel
9. Ways to harness Hydrogen energy and its difficulties
10. Use of Methanol burner for cooking stoves.

|  |   |
|--|---|
| <b>Event Date</b>                          | 27th July, 2020   |
| <b>Department</b>                          | Department of Applied Science & Humanities & Department of Mechanical Engineering |
| <b>Type</b>                                | Webinar   |
| <b>Theme</b>                               | Technical interaction   |
| <b>Organizers</b>                          | Dr. M.D. Nadar & Mr. K.S. Anish   |
| <b>Speakers</b>                            | Dr. P. Muthukumar, Professor, Department of Mechanical Engineering, IIT Guwahati  |
| <b>Sponsoring / Collaborating Agencies</b> | Nil   |
| <b>No. of Students Participated</b>        | 59  |
| <b>No. of Faculty Participated</b>         | 62  |
| <b>Expenditure</b>                         | Nil   |

Department of Applied Sciences and Humanities and Department of Mechanical Engineering jointly organized a Webinar on "Energy Efficient and Green Energy Technologies" on 27th July, 2020 through virtual Google Meet platform.

**Key Speaker:**

Prof. Muthu Kumar, Department of Mechanical Engineering, Indian Institute of Technology, Guwahati.

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**Event Convener:**

1. Dr. Manvendra Vashishtha, Head, Applied Sciences and Humanities Department,
2. Dr. Gajendra V. Patti, Head Mechanical Engineering Department

**Event Coordinators:**

1. Dr. M. D. Nadar , Mechanical Department,
2. Mr. K. S. Anish, Mechanical Department.



The webinar commenced with a welcome note to the expert speaker. The webinar was attended by 98 participants. The resource person Prof. Muthukumar illuminated the concept of renewable energy and its rapidly increasing global demand in various countries. Similarly, he also expressed his thoughts on energy efficiency that has increased worldwide. The expert enlightened the participants with the role of green energy and its key aspect of harmless environment through factors such as releasing greenhouse gases into the atmosphere. The speaker further highlighted six different forms of green energy such as Solar power, Wind power, Hydropower, Geothermal energy, Biomass and Biofuel that lead to stable energy prices are not as affected by geopolitical crisis or price spikes. The participants imbibed a deep knowledge on energy conservation through various examples explained by the speaker. This event was highly interactive and interesting that leaped towards economic benefits and sustainable development.

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PHCET > Humanities Seminars & Workshops > Webinar on "Adsorption Refrigeration System: Recent Advances"

Department of Applied Sciences and Humanities and Department of Mechanical Engineering jointly organized a Webinar on "Adsorption Refrigeration System: Recent Advances" on 28th August, 2020 through virtual Google Meet platform.

|  |   |
|--|---|
| <b>Event Date</b>                          | 28th August, 2020   |
| <b>Department</b>                          | Department of Applied Science & Humanities & Department of Mechanical Engineering         |
| <b>Type</b>                                | Webinar   |
| <b>Theme</b>                               | Technical Interaction   |
| <b>Organizers</b>                          | Dr. M. D. Nadar & Mr. K. S. Anish   |
| <b>Speakers</b>                            | Dr. E. Anil Kumar, Associate Professor, Department of Mechanical Engineering, IT Tirupati |
| <b>Sponsoring / Collaborating Agencies</b> | Nil   |
| <b>No. of Students Participated</b>        | 64  |
| <b>No. of Faculty Participated</b>         | 35  |
| <b>Expenditure</b>                         | Nil   |

The webinar started with introduction of Adsorption systems and covered following points:

1. Pure Substances
2. Phase change process of pure substances
3. Vapour compression system
4. Why an alternative to VCRS?
5. Principle of Vapour Absorption system
6. Comparison of Vapour compression and absorption system
7. Solid-gas sorption process
8. Characterization of metal hydrides
9. Metal hydrides cooling system
10. Concluding Remark

**Key Speaker:**

Dr. E. Anil Kumar, Associate Professor, Department of Mechanical Engineering, Indian Institute of Technology, Tirupati.

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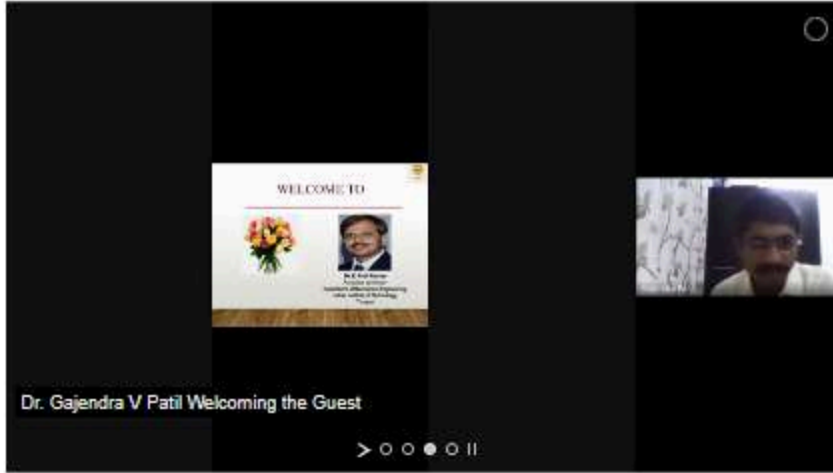
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**Event Convener:**

Dr. Manvendra Vashishtha, Head, Applied Sciences and Humanities Department,  
Dr. Gajendra V. Patil, Head, Mechanical Department.

**Event Coordinators:**

Dr. M. D. Nadar, Mechanical Department,  
Mr. K. S. Anish, Mechanical Department



The event began at 10 a.m. with a warm welcome to the resource person. The event witnessed nearly 100 participants. The speaker Dr. E. Anil Kumar, Associate Professor, IIT, Tirupati began the session with a striking overview on refrigeration system as the most prominent system now a days. He explained that the absorption of refrigeration system works on the principal of low grade heat energy. The expert expounded the use of green energy and low grade waste heat as the key aspect of future development of absorption of refrigeration system. He further reflected his idea about an energy conservation methodologies with various recent advancement in the technology. The videos on 'Energy conservation and absorption technology' were played during the regular interval during the session that helped students to get in - depth understanding of the topic. The participants interacted actively with the resource person. The webinar was successful and met the objective for which it was planned and organized.

The poster is for a webinar titled "ADSORPTION REFRIGERATION SYSTEMS: RECENT ADVANCES". It is organized by the Department of Applied Science & Humanities and the Department of Mechanical Engineering at Pillai HOC College of Engineering and Technology, Rasayani. The webinar is part of the Golden Jubilee lecture series of Mahatma Education Society. The speaker is Dr. E. Anil Kumar, Associate Professor at the Department of Mechanical Engineering, Indian Institute of Technology, Tirupati. The event is scheduled for August 28th, 2020 (Friday) from 5:00 PM onwards. The poster also lists the event coordinators: Dr. M.D. Nadar, Mr. K.S. Anish, and Dr. Madhumita Chatterjee (Principal). There is a QR code and a link to click the icon for Google Meet. The poster features a logo for Mahatma Education Society and a signature of the Principal.

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05

## Teacher's Day 2020

SEP

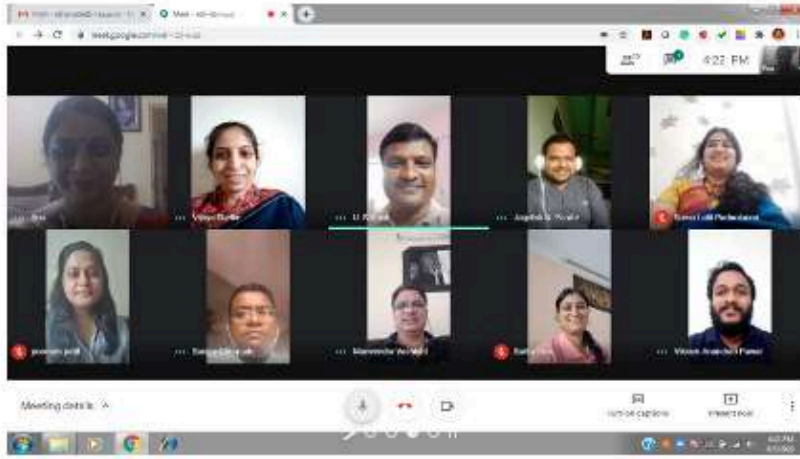
CELEBRATION, HUMANITIES EVENTS

PHCET > Celebration > Teacher's Day 2020

Applied Sciences and Humanities Department of PHCET Rasayani celebrated Teacher's Day 2020. The event was organised by Mrs. Sunita Khansole, she welcomed all.

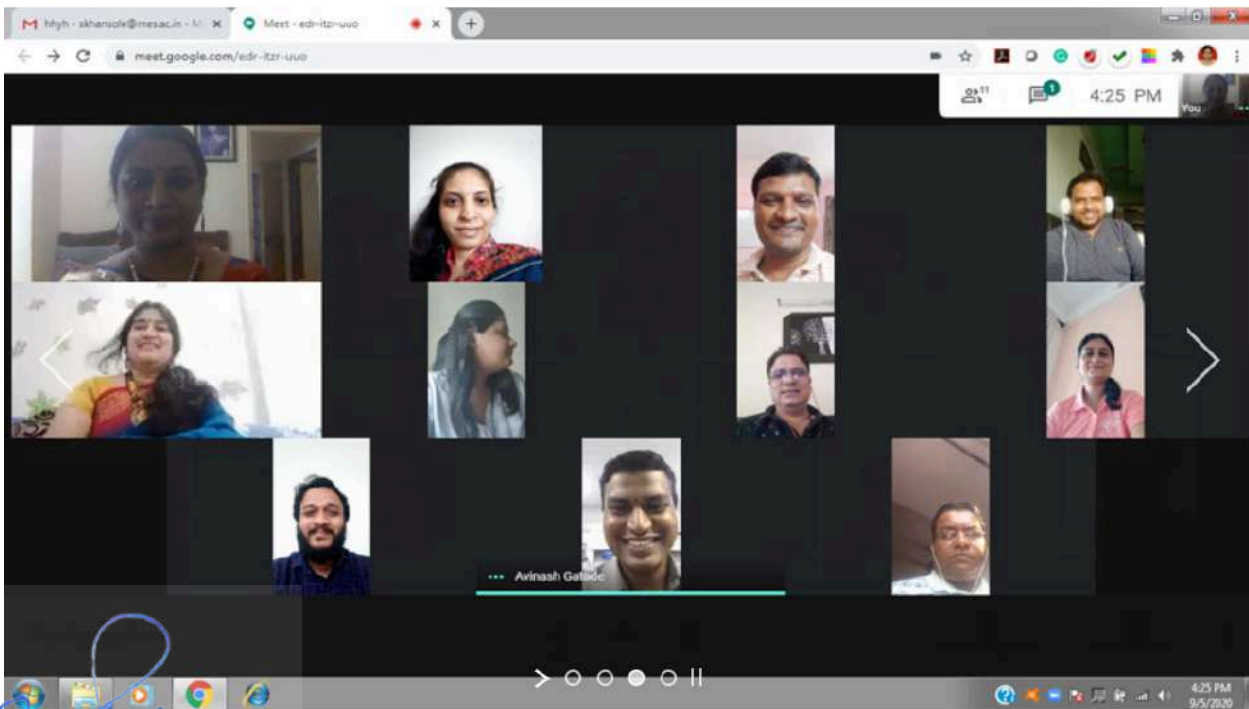
**Date** 5th September, 2020  
**Platform** Online  
**Time** 4.30 p.m. to 5.30 p.m.

Teachers mould the lives of the students by guiding them, by enriching their personalities, by imparting ethical and moral values and have more influence on them. This day is dedicated to the teachers with the sense of respect, appreciation, encouragement and support for their devotion to their students.



The event was concluded by the reviews of Head of the Department and all the faculties.

All in all, it was celebration mode for everyone!



*Sunita*

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Engineering and Technology.

Pillai's HOC Educational Campus  
Rasayani, Tal. Khelapur  
Dist. Raigad, Pin-410 207

# ASH DEPARTMENT



***Teacher's day Celebration 2020***  
***Welcome to all***  
***virtual participants***

CC Sunita Khansole PHCET Rasayani

**PRINCIPAL**

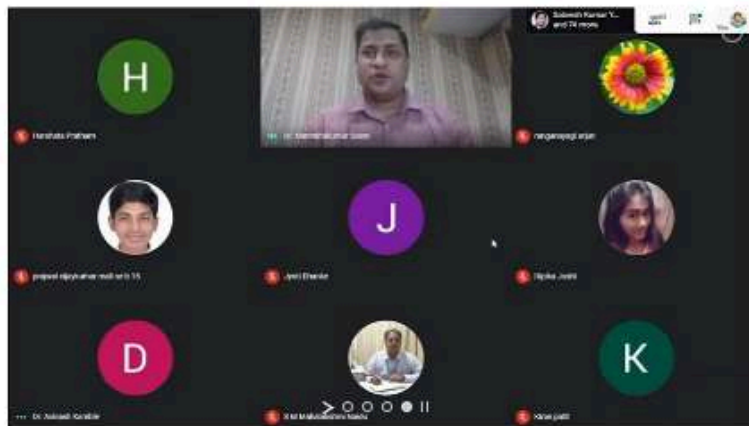
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Dist. Raigad, Pin-410 207

PHCET > Humanities Seminars & Workshops > Webinar on "Research: How and Why?"

Mahatma Education Society's Pillai HOC College of Engineering and Technology, Rasayani presented a webinar on "Research: How and Why?" as a part of the Golden Jubilee lecture series of Mahatma Education Society. The webinar was co-ordinated by Dr. Avinash J. Kamble and organized by faculty of Mathematics. The day was graced by Dr. Mathew T. Joseph, Principal of PHCET and Dr. Manvendra Vashishta, HOD of Department of Applied Sciences and Humanities, PHCET.

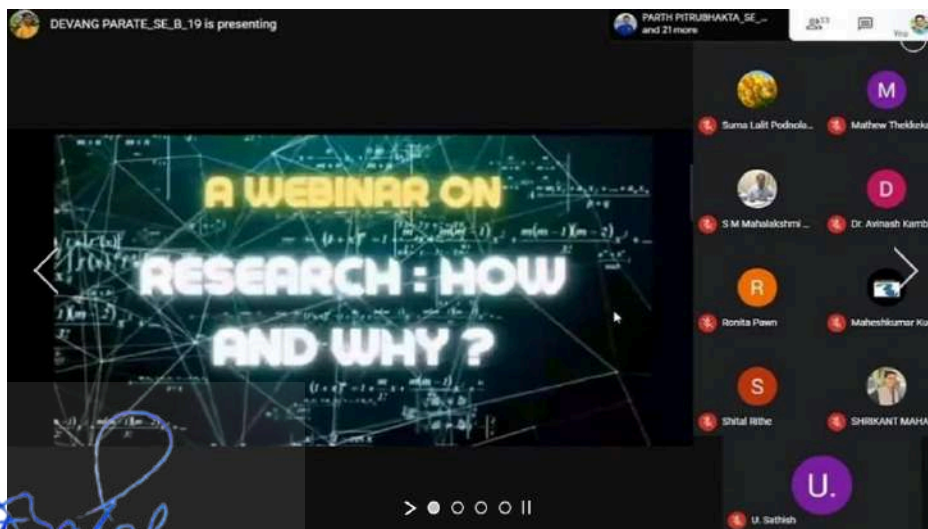
|                           |   |
|---------------------------|---|
| <b>Date and Time</b>      | 7th November, 2020 at 11:30 a.m.                              |
| <b>Activity</b>           | Webinar   |
| <b>Mode of Conduction</b> | Google Meet and YouTube live stream                           |
| <b>Target Audience</b>    | Everyone  |
| <b>Resource persons</b>   | Dr. S. Mohan Mahalakshmi Naidu and<br>Dr. Narendrakumar Dasre |

Mahatma Education Society's Pillai HOC College of Engineering and Technology, Rasayani presented a webinar on "Research: How and Why?" as a part of the Golden Jubilee lecture series of Mahatma Education Society. The webinar was co-ordinated by Dr. Avinash J. Kamble and organized by faculty of Mathematics. The day was graced by Dr. Mathew T. Joseph, Principal of PHCET and Dr. Manvendra Vashishta, HOD of Department of Applied Sciences and Humanities, PHCET.



The webinar was conducted in two sessions. The first session addressed the general aspects of academic research, preferably for the beginners and the second session focused on research in Mathematics, its challenges, and opportunities.

The webinar concluded with the vote of thanks by Dr. Avinash J. Kamble.



*Dr. Avinash Kamble*

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PHCET > Humanities Events > Universal Human Values Orientation Program 2023

Applied Sciences and Humanities Department of PHCET Rasayani conducted UHV Orientation Program. The program was organized by Mrs. Sunita Khansole.

**Date** 9th March, 2023

**Time** 10.30 a.m. to 12.30 p.m.

The event had in attendance, Dr. J. W. Bakal, Principal PHCET, Head of Department, ASH Faculty as well as students of FE.



Participants at the event were welcomed by Mrs. Sunita Khansole.

Dr. Yashwant S. Patil, Professor and HoD, Shivajirao S. Jadhav College of Engineering and Technology, Asangaon, Maharashtra, talked about what is central to our living – our aspirations towards which we all are making a lot of effort. What is our basic desire and how do we go about fulfilling it is what is Universal Human Values course is about.

More than 260 students and faculty participated in the session. Positive feedback was received from participants. Overall the programme was a great success with everyone's effect.

**Mahatma Education Society's**  
**Pillai HOC College of Engineering and Technology**

**Department of**  
**Applied Sciences and Humanities**

**INSTITUTION'S**  
**INNOVATION**  
**COUNCIL**

**A Seminar On**  
**BASIC HUMAN**  
**ASPIRATIONS AND**  
**THEIR FULFILMENT**  
**For First year students**

**Thursday, 9 March 2023**  
**10.30am to 12.30pm**  
**One lecture**

**COORDINATOR:**  
**Sunita Khansole**  
 Asst. Professor, Pillai HOC  
 College of Engineering and  
 Technology

**SPEAKER:**  
**Dr. Yashwant Patil**  
 Professor and HoD, Shivajirao  
 Jhadhve College of  
 Engineering and Technology

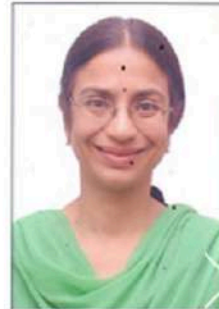
*Sunita Khansole*

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**Engineering and Technology.**

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# ASH DEPARTMENT



Topic : " Basic  
Human Aspirations  
and Their  
Fulfillment" 4 Feb 2021

**Orientation Coordinator –  
Sunita Khansole**

**Welcome to  
Dr Pooja U. Pherwani**  
Associate Professor,  
Department of Pharmacology,  
**Bharati Vidyapeeth's College of  
Pharmacy,**  
C.B.D. Belapur, Navi Mumbai  
Maharashtra, India

CC Sunita Khansole PHCET Rasayani

| Present effort     | Expect to become something | Expect to get/do something | Expect to BE something        |
|--------------------|----------------------------|----------------------------|-------------------------------|
| Studying           | Engineer                   | Get Money                  | Expect to <b>BE</b> something |
| Doing internship   | Doctor                     | Earn Name, Fame            |                               |
| Practicing         | Farmer                     | Do Research, Innovation    |                               |
| Attending coaching | IAS Officer                | Take care of your parents  |                               |
| Doing articleship  | Lawyer                     | Happy and prosperous       |                               |
| Doing MBA          | Businessman                |                            |                               |
| Researching        | Scientist                  | Earn Respect               |                               |
| Painting           | Artist                     | Get Satisfaction           |                               |
|                    |                            | And so on...               |                               |

**I am able to relate this discussion to my personal life**

1. Strongly agree
2. Agree
3. Neither agree nor disagree
4. Disagree
5. Strongly disagree

*Sunita Khansole*

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**AICTE Fitness Program – Faculty Development Program on "Yoga"**

Department of Applied Sciences and Humanities organized a Program on 'AICTE – Fitness Program'

5 Days program Through virtual Google Meet

**Keynote Speaker:** Dr. Manvendra Vashishtha, Head, Applied Sciences and Humanities Department

**Coordinator:** Dr. Manvendra Vashishtha, Head, Applied Sciences and Humanities Department

The Applied Sciences and Humanities Department organized a 5 Days fitness program under the aegis of Fit India Movement. A webinar session on 'Yoga and Meditation' began on 22nd December, 2020 through the virtual Google Meet platform. In all, there were 16 participants. The program was an effort to relieve faculty from stress by practicing various yoga Asana and encourage them to live a fit and healthy lifestyle. This program was held in the evening as per the convenience of the faculty.



On day one (22nd December, 2020), Dr. Vashishtha delivered a talk on exceptional benefits of yoga on our Digestive, Respiratory, Circulatory, Nervous, Endocrine, Skeletal, Muscular, Immune and Lymphatic System, Urinary or Excretory System, Reproductive System and Integumentary System to promote weight loss, cardiovascular fitness, muscle endurance.

The second day of the yoga session (23rd December, 2020) began with different states of 'Chitta' and 'Vritti'. Dr. Vashishtha unfolded the true meaning of yoga and illustrated how to control the tendencies of the Chitta and connect with the inner self.

On the third day (24th December, 2020), Dr. Vashishtha delivered a high impact of yogic practices like Patanjali Yoga sutras, Niyama and Asana. He asserted that Yama helps to eradicate impurities from the mind and Niyama yoga helps in maintaining discipline in our lives.

On day four (29th December, 2020), Dr. Vashishtha addressed various stress developing factors in our day-to-day life, such as relationship challenges, children and their future, travelling, educational challenges, coping with work and lifestyle, old age and retirement, failing to overcome these situations might lead to stress and even death.

On day five (5th January, 2021), Dr. Vashishtha acquainted all the faculty members with Pranayama, a spiritual practice, achieved through 'Yoga Sadhna' and Meditation as effective techniques to release stress. He emphasized the effect of pranayama through mathematical calculation.

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## Faculty development program cum orientation program on "Structural Analysis"

PHCET > Civil FDP > One Week FDP cum Orientation Program on "Structural Analysis Course Code: CEC 402"

Department of Civil Engineering organised a Faculty Development Program cum Orientation Program on "Structural Analysis (Course Code: CEC 402)" from 9th – 12th July, 2020 in association with Mumbai University. The program was organised to orient the faculty of engineering from various colleges across Mumbai about the new syllabus of the course revised under Scheme C with emphasis on learning rather than teaching. Around 50 faculty actively participated in the program. Experts from the field delivered online sessions in which overview and importance of the subject from exam point of view was explained.

| Speaker         | Designation         | Organisation        | Topic   |
|-----------------|---------------------|---------------------|---|
| Dr. Ajay Radke  | HoD                 | DMCE, Airoli        | Influence Line Diagrams   |
| Dr. Y. S. Patil | HoD                 | SSJCOE,<br>Asangaon | Energy Principles<br>Static and Kinematic Indeterminacies<br>Stiffness method |
| Dr. N. G. Gore  | Professor           | MGM CET,<br>Kamothe | Three moment Theorem<br>Flexibility Method                                    |
| Raju Narwade    | HoD                 | PHCET, Rasayani     | Trusses<br>Three hinged arches  |
| Dada Patil      | Assistant Professor | AIKTC, Panvel       | Shortcuts for Drawing Qualitative ILD<br>Moment Distribution Method           |

**MAHATMA EDUCATION SOCIETY**  
**PILLAI HOC COLLEGE OF ENGINEERING & TECHNOLOGY (PHCET) RASAYANI**  
 ACCREDITED WITH AN 'A' GRADE BY NAAC IN THE FIRST CYCLE 2019  
 REACCREDITED BY NBA FOR COMPUTER AND MECHANICAL ENGINEERING 2020  
 WINNER OF FIRST POSITION FOR WORKPLACE SAFETY AWARD - 2019  
**DEPARTMENT OF CIVIL ENGINEERING**  
**ORGANIZES**

**FACULTY DEVELOPMENT PROGRAM CUM ORIENTATION PROGRAM  
ON THE COURSE "STRUCTURAL ANALYSIS (COURSE CODE-CEC402)"**

**DATES : 9TH JULY TO 12TH JULY 2020**

**TIME : 11.00AM TO 1.00PM**

**RESOURCE PERSON OF THE FDP**

1. Dr. Ajay Radake (HoD, Dept of Civil Engg. DMCE)
2. Dr. Y S Patil (HoD, Dept of Civil Engg, SSJCOE)
3. Dr. N G Gore (Prof. Dept of Civil Engg, MGM CET)
4. Mr. Raju Narwade (HoD, Dept. of Civil Engg, PHCET)
5. Mr. Dada Patil (Asst. Prof, Dept of Civil Engg, AIKTC)



University of Mumbai

In Association with University of Mumbai

Mr. Raju Narwade (HoD, Dept. of Civil Engg, PHCET) | Dr. Madhumita Chatterjee (Principal, PHCET)

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Mahatma Education Society's  
**Pillai HOC College of Engineering & Technology, Rasayani**

Department of Civil Engineering

**Faculty Development Program/Orientation Program on the course**  
**"Structural Analysis (Course Code: CEC 402)" from 9<sup>th</sup> to 12<sup>th</sup> July, 2020**

In Association with University of Mumbai



**SCHEDULE**

| Sr. No. | Date       | Time                 | Speaker   | Topic   |
|---------|------------|----------------------|---|---|
| 1       | 09.07.2020 | 11.30 am to 11.40 am | Inaugural Function:<br>Address by<br>Dr. Madhumitta Chatterjee<br>(Principal-PHCET) |   |
| 2       | 09.07.2020 | 11.45 am to 11.55 am | Address by<br>Dr. S. K. Ukarande<br>(Associate Dean, FoST,<br>University of Mumbai) |   |
| 3       | 09.07.2020 | 12.05 pm to 01.00 pm | Mr. Raju Narwade<br>(HoD, Dept. of Civil Engg,<br>PHCET)                            | Module-I<br>Trusses and Three Hinged Arches   |
| 4       | 09.07.2020 | 01.00 pm to 02.00 pm | Dr. Ajay Radke<br>(HoD, Dept. of Civil Engg,<br>DMCE)                               | Module-II<br>Rolling Loads and Influence Line<br>Diagrams   |
| 5       | 11.07.2020 | 11.30 am to 12.30 pm | Dr. V. S. Patil<br>(HoD, Dept. of Civil Engg,<br>SSJCET)                            | Module-III<br>Deflection of Statically<br>Determinate Structures; Static and<br>Kinematic Indeterminacies |
| 6       | 11.07.2020 | 12.30 pm to 01.30 pm | Dr. N. G. Gore<br>(Professor, Dept. of Civil<br>Engg, MGMCT)                        | Module-IV<br>Analysis of Indeterminate<br>Structures by Flexibility Method                                |
| 7       | 12.07.2020 | 11.30 am to 12.30 pm | Dr. V. S. Patil<br>(HoD, Dept. of Civil Engg,<br>SSJCET)                            | Module-V<br>Analysis of Indeterminate<br>Structures by Stiffness Method                                   |
| 8       | 12.07.2020 | 12.30 pm to 01.30 pm | Mr. Dada Patil<br>(Assistant Professor, Dept. of<br>Civil Engg, AIKTC)              | Module-VI<br>Moment Distribution Method and<br>Plastic Analysis   |

A handwritten signature in blue ink, appearing to read 'S. W. Patil'.

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## International symposium on "Green Building: Facts and Myths"

28

FEB

### International Symposium on "Green Building: Facts and Myth"

CIVIL SEMINARS & WORKSHOPS, NEWS AND NOTIFICATIONS

PHCET > Civil Seminars & Workshops > International Symposium on "Green Building: Facts and Myth"

The Student Chapter Committee of Indian Green Building Council (IGBC) at Mahatma Education Society's Pillai's HOC College of Engineering & Technology, Rasayani has conducted an international symposium on "Green Building: Facts and Myths" on 28th February 2021, Sunday at 2:30 p.m. IST.

|                     |                          |
|---------------------|--------------------------|
| <b>Date</b>         | 28th February, 2021      |
| <b>Platform</b>     | Google Meet              |
| <b>Department</b>   | Civil Engineering        |
| <b>Co-ordinator</b> | Dr. Shilpa Pankaj Kewate |

Total 156 participants from Maharashtra, Karnataka, Tamilnadu, Gujarat, West Bengal, Madhya Pradesh, Uttar Pradesh, Kerala, Chhattisgarh, Andhra Pradesh, Jharkhand and Rajasthan Delhi had registered for this international symposium.

"good architecture is a good business"

Terima Kasih, India!  
Thank You, India!

- Denny Setiawan, ST., MT., IAI. Architect and Lecturer at BINUS University

for more info, please contact via:  
email: [seswan\\_denny@binus.com](mailto:seswan_denny@binus.com)  
ig: [dennysetiawan](https://www.instagram.com/dennysetiawan)  
fb: [facebook.com/dennysetiawan](https://www.facebook.com/dennysetiawan)  
@dennysetiawan

Studio Denny Setiawan

Technical session by Ar. Denny Setiawan on "Green Building: Facts and Myths"

Meeting details



Raise hand

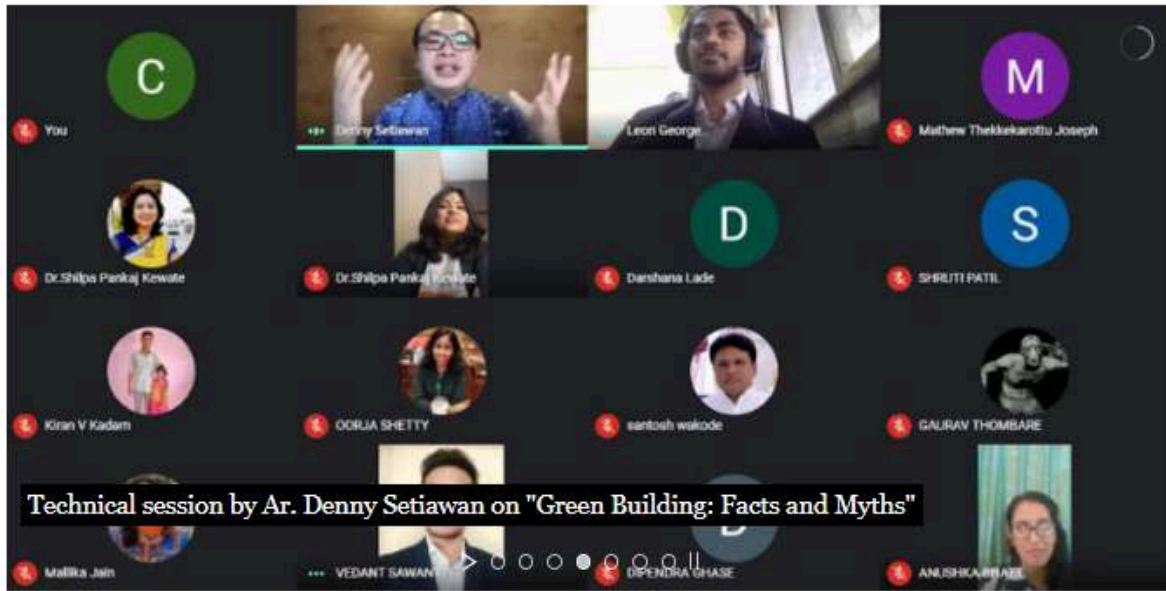
Turn on captions

Denny Setiawan is presenting

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## Webinar series under Prime Minister's Research Fellowship on "Dynamic Behaviour of Concrete at High Strain Rates", organized by PHCET, Rasayani.

PHCET > Civil Seminars & Workshops > PMRF Webinar Series on "Advancements in Concrete Technology"

### About the Program

Department of Civil Engineering, Pillai HOC College of Engineering and Technology in association with Indian Institute of Technology Bombay, Student's chapter of ASTR and ISRS has organised a 'Webinar series under Prime Minister's Research Fellowship' on 'Advancements in Concrete Technology'. A webinar is scheduled every month by the research scholar from IIT Bombay. The program is conducted online with the active participation of the student council of the civil department of PHCET. The topics for the webinar are related to the syllabus of BE, imparting a wider dimension of knowledge. Registration is free and open to students and faculty of PHCET and other colleges in and outside Mumbai. E-Certificates are provided to all the participants.



The poster features a background image of a modern building's facade with a repeating geometric pattern. At the top, a dark grey banner contains the college's name and accreditation details. Below this, the logos for ASTR and ISRS are displayed. The central text block, set against a dark grey background, provides details about the organizing department and the webinar series. At the bottom, it states that the event is open for all civil engineering students.

**Mahatma Education Society's**  
**Pillai HOC College of Engineering & Technology, Rasayani, Raigad**  
Accredited with an 'A' grade by MAAC in the First Cycle 2019  
Winner of the First Position for Workplace Safety Awards 2019  
Winner of Indian Merchant Chamber's Ramakrishna Bajaj National Quality Performance Excellence Trophy - 2019

**ASTR**  
Association of Structural Rehabilitation  
(Reg.No 1218)

**ISRS**  
INDIAN SOCIETY OF REMOTE SENSING  
1969

**DEPARTMENT OF CIVIL ENGINEERING**  
In association with  
**Indian Institute of Technology, Bombay,**  
**Association of Structural Rehabilitation (ASTR) Students' Chapter &**  
**Indian Society of Remote Sensing (ISRS) Students' Chapter**

**Webinar Series under**  
**Prime Minister's Research Fellowship on**  
**" Advancement in Concrete**  
**Technology"**

**OPEN FOR ALL CIVIL ENGINEERING STUDENTS.**



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**Dist. Raigad, Pin-410 207**

**Details of Resource Person:**

**Mr. Nabodyuti Das**

**Research Scholar (PMRF Fellow),**  
**Department of Civil Engineering,**  
**Indian Institute of Technology Bombay**

**Webinar 4:**  
**Topic - "Tests on Hardened Concrete"**

Date: July 31st, 2021  
Time: 04:00 PM Onwards

Zoom link to join Webinar:

<https://zoom.us/j/3778018428?pwd=dDZJelh4QnQ2Zkd1SHpjdXYyZ2FTOT09>

Meeting ID: 377 801 8428

Passcode: ci7DX6

General Guidelines:

- Click on the "Register here" button to open the registration form.
- The session will be of 2 hours including discussion.
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Student Coordinators:

Mr. Suhas Redekar (8898787240)  
Mr. Vedant Sawant (8097499298)

• Prof. Raju Narwade  
E-mail: rnarwade@mes.ac.in  
(Head, Department of Civil Department)

• Ms. Smitha J. S.  
E-mail: smitha@mes.ac.in  
(Faculty Co-ordinator)

• Mr. Vedant Sawant  
E-mail: vedantsawant18hc@student.mes.ac.in  
(President)

• Miss. Anjali Sharma  
E-mail: anjalisharma18hc@student.mes.ac.in  
(Secretary)

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Zoom Meeting    **File sharing NABODYUTI DAS screen**    View Options

Recording

## Compressive Strength of Concrete

**Cylinder:**

According to St. Venant's principle, if the lateral dimension of the specimen is  $d$ , then the end effects have to be accounted for sections of the specimen that are less than  $d$  away from the load. For sections that are more than  $d$  away from the load, the assumption of a uniform stress distribution is valid.

- A correction factor according to the height to diameter ratio of specimens after capping shall be obtained from the curve.
- The product of this correction factor and the measured compressive strength shall be known as the corrected compressive strength, this being the equivalent strength of a cylinder having a height/diameter ratio of two.
- The equivalent cube strength of the concrete shall be determined by multiplying the corrected cylinder strength by  $\sqrt{3}$ .

Fig. Correction factor for H/D ratio of a cone (IS:456)

**Cube Strength**

**Cylinder Strength**

**ST. VENANT'S PRINCIPLE**

Zoom Meeting controls: Mute, Start Video, Participants, Chat, Share Screen, Record, Reaction, Leave

Participants (64)

Find a participant

Niranda mobile    **NABODYUTI DAS**    Smitha J S    Santosh Deshm...    Prasad Pillai

July Nimbekar    Karthik Nagarajan    Mahesh Patil    Manasi Patil    Manish Patil    Manika Jirangekar    Md Aftab Ismail    Mohammad Shabbir    Naveen Rajesh    Nikhil Bhande

11:43 21-07-2021

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**Webinar series under Prime Minister's Research Fellowship on "Mixture Design of Concrete", organized by PHCET, Rasayani.**

**About the Program**

Department of Civil Engineering, Pillai HOC College of Engineering and Technology in association with Indian Institute of Technology Bombay, Student's chapter of ASTR and ISRS has organised a 'Webinar series under Prime Minister's Research Fellowship' on 'Advancements in Concrete Technology'. A webinar is scheduled every month by the research scholar from IIT Bombay. The program is conducted online with the active participation of the student council of the civil department of PHCET. The topics for the webinar are related to the syllabus of BE, imparting a wider dimension of knowledge. Registration is free and open to students and faculty of PHCET and other colleges in and outside Mumbai. E-Certificates are provided to all the participants.

DEPARTMENT OF CIVIL ENGINEERING  
IN ASSOCIATION WITH  
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ASSOCIATION OF STRUCTURAL REHABILITATION (ASTR) STUDENT'S CHAPTER &  
INDIAN SOCIETY OF REMOTE SENSING (ISRS) STUDENT'S CHAPTER

ASTR  
Association of Structural Rehabilitation  
(Reg.No 1215)

INDIAN SOCIETY OF REMOTE SENSING  
1969  
ISRS

**Webinar Series under  
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## Objectives

The webinar series was organised to fulfill the following objectives:

- To enhance the knowledge of students and faculty in the field of advancements in concrete technology.
- To facilitate the interaction of students with scholars outside the campus.
- To open new areas of research in the civil engineering field to undergraduate students.
- To help the students to explore new project topics in their career.
- To judiciously utilise the online platform and free time of students for gaining knowledge.

## Coordinators:

### Student Coordinators:

Mr. Vedant Sawant  
(President-ASTR Student Chapter)  
Email: [vedantsawant18hc@student.mes.ac.in](mailto:vedantsawant18hc@student.mes.ac.in)

Miss. Anjali Sharma  
(Secretary-ASTR Student Chapter)  
Email: [anjalisharma18hc@student.mes.ac.in](mailto:anjalisharma18hc@student.mes.ac.in)

### Faculty Coordinator:

Ms. Smitha J. S.  
Email: [smitha@mes.ac.in](mailto:smitha@mes.ac.in)

### Convener and HoD, Department of Civil Engineering

Mr. Raju Narwade  
Email: [rnarwade@mes.ac.in](mailto:rnarwade@mes.ac.in)  
Mob: 8108202122



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Meeting ID: 377 801 8428

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• **Mr. Vedant Sawant**  
E-mail: vedantsawant18hc@student.mes.ac.in  
(President)

• **Miss. Anjali Sharma**  
E-mail: anjalisharma18hc@student.mes.ac.in  
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Rassyan, Tal. Khelapur  
Dist. Raigad, Pin-410 207

Recording You are viewing NABODYUTI DAS' screen View Options View

# Flow of experiments

Binders & Admixtures

Paste

Mortar

C&F str., E, Abra., WPT, RCPT & RCMT, NDT

Concrete

Others

Lab.

2

Umute Start Video Participants 40 Chat 4 Share Screen Record Reactions Leave

NABODYUTI DAS

Smitha J S

SHIVAM KATOR

zoheb rizvi

Vedant Sawant

**PRINCIPAL**

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