



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

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

- Event Brochures and Reports year-wise
- E-copy of the certificates of programs attended by Teaching staff
- List of participating Teaching and non-teaching staff as per the prescribed format yearwise during te last five years
- Annual Reports highlighting the programs undertaken by teaching faculties and non-teaching staff

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

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

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Pillai HOC College of
Engineering and Technology,
Pillai's HOC Educational Campus
Rasayani, Tal. Khalapur,
Dist. Raigad, Pin-410 207

6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during 2022-23

STTP on “Challenges and Opportunities in Sustainable Energy Conservation, Utilization and Its Business Strategy”

Industry sponsored & ISTE approved Six Days Short Term Training Program on “Challenges and Opportunities in Sustainable Energy Conservation, Utilization and Its Business Strategy” organized by Department of Civil, Electrical & Mechanical Engineering

Event Date: 19th to 24th September, 2022

Mode of Conduct: Offline

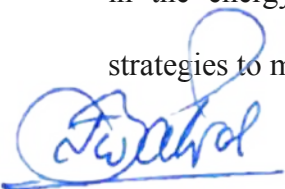
Theme: Interaction with an Industry and academia expert

Organizers: Dr. G. V. Patil, Mr. Raju Narwade and Ms. Pranita Chavan

No. of Students Participated: 169

No. of Faculty Participated: 38

About STTP: This STTP focused on conservation, storage and utilization of conventional and non-conventional energy resources which includes engineering applications of hydrogen energy, solar energy and wind energy. Currently the global market faces issues to maintain sustainability in the context of environmental economy and social needs. To mitigate energy conservation and storage challenges eminent speakers from industry and academia have been invited. Industry experts explored various opportunities in the energy sector to develop entrepreneurship skills and job opportunities. STTP included a one day industry visit to explore real life issues and solutions in the energy sector. Eminent personalities from industry and academia explored business strategies to maximize the profit and reduce the energy exploring cost.



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Pillai's HOC Educational Campus

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STTP Objectives

This STTP have been scheduled to achieve following objectives:

- Utilization of conventional and non-conventional energy resources
- To maintain sustainability in the context of environmental economy and social needs.
- To mitigate energy conservation and storage challenges
- To explore various opportunities in energy sector to develop entrepreneurship skills and job opportunities
- Industry visit to explore real life issues and solutions in the energy sector.



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Signature

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Pillai's HOC Educational Campus
Rassyan, Tal. Khelepur
Dist. Raigad, Pin-410 207

About MES

Mahatma Education Society was established in the year 1970 by a group of teachers with the aim of spreading education for all. The society today has 48 institutions from pre-primary to post-graduation to research with over 35,000 students and over 2,500 teachers. The society manages several schools imparting instruction in S.S.C., C.B.S. E., I.G.C.S.E. and I.B. programs, Junior Colleges, Degree Colleges, Engineering Colleges, Architecture colleges, Management Institutions, Polytechnics and Teacher education programs at different locations in Mumbai, Navi Mumbai and Rasayani (Raigad District). Most of the colleges are reaccredited 'A' Grade by NAAC and also accredited by NBA and other Government bodies.

About PHCET

The MES group after establishing its name in the field of education with the experience of around 50 years, ventured into the field of Engineering education with the establishment of Pillai HOC College of Engineering and Technology (PHCET) in the year 2009 at Rasayani. PHCET offers both undergraduate (Bachelor of Engineering) and postgraduate (Master in Engineering) programs and PhD programs in Civil & Computer engineering. Institute Accredited with an 'A' grade by NAAC in First Cycle from A.Y. 2019. Two UG Programs viz. Computer Engineering and Mechanical Engineering have been reaccredited by the NBA for three years i.e. up to 2023

Patrons

Dr. K. M. Vasudevan Pillai, Hon. Chairman & CEO, Mahatma Education Society
Dr. Daphne Pillai, Hon. Secretary, MES
Dr. Priam Pillai, COO, MES
Mr. Franav Pillai, DCEO, MES
Prof. Munawira Pillai, Head, Innovation, Research Centre, PHCET
Dr. Lata Menon, Dy. CEO, Pillai HOCL Educational Campus, Rasayani
Dr. J. W. Bakal, Principal, PHCET Rasayani

Advisory Committee:

Dr. R. C. Prasad, Prof. Mech. Engg. PHCET.
Prof. Amar Mange, Principal, Pillai HOC Poly.
Dr. M. D. Nadar, Prof. Mech. Engg. PHCET.
Dr. B. K. Sarkar, Prof. Comp. Engg. PHCET.
Dr. Mansi Subhedar, HOD, ECS Engg.
Dr. Divya Chirayil, HOD, IT
Dr. Manvendra Vashishta, HOD, ASH.
Prof. Rohini Bhosale, HOD, Comp. Engg.
Prof. Amar Jadhav, HOD, Auto. Engg.
Prof. Asokan S., Electrical Engg.

Convenors:

Dr. Gajendra V. Patil, Head, Mechanical Engg.
Prof. Raju Narwade, Head, Civil Engg.
Prof. Pranita Chavan, Head, Electrical Engg.

Co-ordinators:

Mr. Sunilising Rajput, Mech. Engg.
Ms. Supriya Shigwan, Electrical Engg.
Mr. Prashant Singh, Civil Engg.

Organizing Committee:

Dr. Suhass Uthale, Mech. Engg.
Mr. T.R.B. Sanjai Kumar, Mech. Engg.
Ms. Manisha Jangade, Civil Engg.
Ms. Smitha J.S., Civil Engg.
Ms. Ronita Pawan, Electrical Engg.
Ms. Lakshmi C.R., Electrical Engg.

Industry sponsored & ISTE approved
SIX DAYS
SHORT TERM TRAINING PROGRAM

On

"CHALLENGES AND OPPORTUNITIES IN SUSTAINABLE ENERGY CONSERVATION, UTILIZATION AND ITS BUSINESS STRATEGY"

Date: September 19-24, 2022

Venue: Conclave-I, PHCET Rasayani

Organized by

Pillai HOC College of Engineering & Technology, Rasayani



Supported by



About the STTP

This STTP focuses on conservation, storage and utilization of conventional and non-conventional energy resources which includes engineering applications of hydrogen energy, solar energy and wind energy. Currently global market faces issues to maintain sustainability in the context of environmental economy and social needs. To mitigate energy conservation and storage challenges eminent speakers from industry and academia have been invited. Industry experts will be exploring various opportunities in energy sector to develop entrepreneurship skills and job opportunities.

STTP includes one day industry visit to explore real life issues and solutions in the energy sector. Eminent personalities from industry and academia will explore business strategies to maximize the profit and reduce the energy exploring cost.

STTP Objectives

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- Utilization of conventional and non-conventional energy resources
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- To mitigate energy conservation and storage challenges
- To explore various opportunities in energy sector to develop entrepreneurship skills and job opportunities
- Industry visit to explore real life issues and solutions in the energy sector.

Sponsorship

The event can be sponsored by donating Rs.25,000/-. The sponsorship entitles mention in the souvenir free registration for three delegates with registration kit, breakfast, lunch. A souvenir will be brought out on this occasion. The tariff for advertisements in the souvenir is as below:
Back Cover Rs.3,000/-, Inside Cover Pages Rs.6,000/-, Full Page Rs.5,000/-, Half Page Rs.3,000/-.

Resource Persons:

Dr. Ashok Khade, Managing Director, Das Offshore Engineering Pvt. Ltd.
Mr. Manish Pasari, Chairman & Managing Director at Amtronics Techno Pvt.Ltd.
Mr. Nemade N. H., Managing Director, Nikhil Comforts
Mr. Santosh Naikar, Consultant
Dr. Prathiba Sharma, Professor, IIT, Bombay
Dr. Pawan Kumar Hazi, Professor, IIT, Bombay
Mr. Mahadeo Sabale, Zonal Head, Tata Power
Dr. Pramod Sharma, (Deputy Manager, Suzlon Energy Limited, Pune)
Mr. Pratik Praman, (Sr. Manager), Solar Energy Cooperation of India (SECI)
Mr. Palakshi Karjige, Ex-Supt. Geologist, ONG Ltd, Reliance Industries Ltd.
Mr. Prashant Jain, Professor, NJSC, VidyaVihar
Mr. Kamal Pandey, IIRS ISRO outreach program
Dr. Praveen Kumar Thakur, ISRO scientist
Dr. Sandeep Joshi, Principal, PCK, Panvel
Dr. Vashishta M., Asso. Professor, PHCET, Rasayani

Who should attend?

- U.G. P.G. Students & Ph.D. research scholars from Civil, Electrical & Mechanical Engineering
- Faculty Engineering, Polytechnic & Architecture
- Delegates from Industries and R & D Organizations

Registration Details:

Registration Fees:
 Rs. 500/- for PHCET faculty and UG/PG/ Ph.D students
 Rs. 1000/- for other students, faculty & Industry participants.

Registration charges includes morning tea and breakfast on every day.

Session Timings:

09:45 to 10:15 AM- Tea and Breakfast
10:15 to 01:30- Sessions

For queries/contact:

Mr. Sunilising Rajput (727622267- Gpav/PhonePe)
Ms. Supriya Shigwan (9766956368)
Mr. Prashant Singh (9762242797)

REGISTRATION FORM

Industry sponsored & ISTE approved
SIX DAYS
SHORT TERM TRAINING PROGRAM

On

"CHALLENGES AND OPPORTUNITIES IN SUSTAINABLE ENERGY CONSERVATION, UTILIZATION AND ITS BUSINESS STRATEGY"

NAME (PRINT): _____

DESIGNATION: _____

ORGANISATION: _____

MAILING ADDRESS: _____

TEL: _____ (G) _____ (R)

FAX: _____ MOBILE: _____

EMAIL: _____

Bank Details for Payment towards sponsorship / participation
DD / Cheque No. _____ drawn in favor of 'PHCET Research & Development Account' are given below.
RTGS / NEFT / BNC Code Details:
Name of the Account Holder: PHCET Research and Development Account
Name of the bank: CANARA BANK, Branch: Khaire, Patalganga Account No. 5214230011189 RTGS / NEFT / BNC Code: CNRB0015214

Date: _____

Signature _____

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Seminar On “How to implement DESIGN THINKING in STARTUP”

Date: 28th July 2022.

Venue: Conclave-I

Time: 10:15 AM to 1:15 PM

Speaker : Dr. Karthik Nagrajan

Coordinator : Prof. Ronita Pawn

Department of Electrical Engineering, has Organized seminar on “How to implement DESIGN THINKING in STARTUP” under IEI student Chapter on 28th July 2022.

The seminar aimed to understand the importance of design thinking. Designing thinking is a process that aims to radically change how you solve a problem by diversifying the design team and fully understanding a specific user. Most entrepreneurs are inherent design thinkers. They are always looking for problems that can be solved and solutions that can be improved. They are empathetic to customers’ needs and naturally have a curious mind that allows them to look at things unconventionally. This is how they can come up with business ideas and turn them into sustainable startups. The participants got great help regarding planning and out of box thinking.

Total 119 students and 9(11) faculties have participated in the seminar. All the students had a very interactive session. They were very excited about participating in this seminar and requested for more seminars/workshops in a similar way so that they can simultaneously gain practical knowledge.



Banner of the event

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Felicitation of speaker Dr. Karthik Nagrajan by Head of Department



Explaining the idea with example

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Interaction with students



Group photo with the faculty members

A handwritten signature in blue ink, appearing to read 'S. S. S.', written in a cursive style.

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Photo of the participant present for the seminar

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Hands on training program on Electrical Machines

The hands-on training program on Electrical machines was organized by the Department of Electrical Engineering and it commenced at 10:00 a.m. on 18th March, 2023 in the Machine Lab, PHCET. Prof. Supriya Shigwan introduced the speaker Mr. R. D. More, M.E. in Electrical Engineering having vast experience in the field. The Head of the Department, Ms. Pranita Chavan felicitated the speaker.

The speaker discussed fundamental concepts of electric machines together with several solved examples. He explained speed control techniques , need of starter and applications of different types of machines so that an appropriate selection of a machine can be made for a given application. .He also discussed the operation , speed torque characteristics and control procedure for different types of motor .He discussed basic principles, modeling, and operating characteristics of various types of conventional DC and AC machines, special purpose machines, and transformers. He explained the advantages of BLDC motors and PMSM over induction motor & DC motors.

The session concluded with a question answer session. There were around 9 participants for the Electrical machine workshop. A feedback session was taken from all the participants.

Date 18th March, 2023

Venue: Electrical machine lab

Co-ordinator: Prof. Supriya Shigwan



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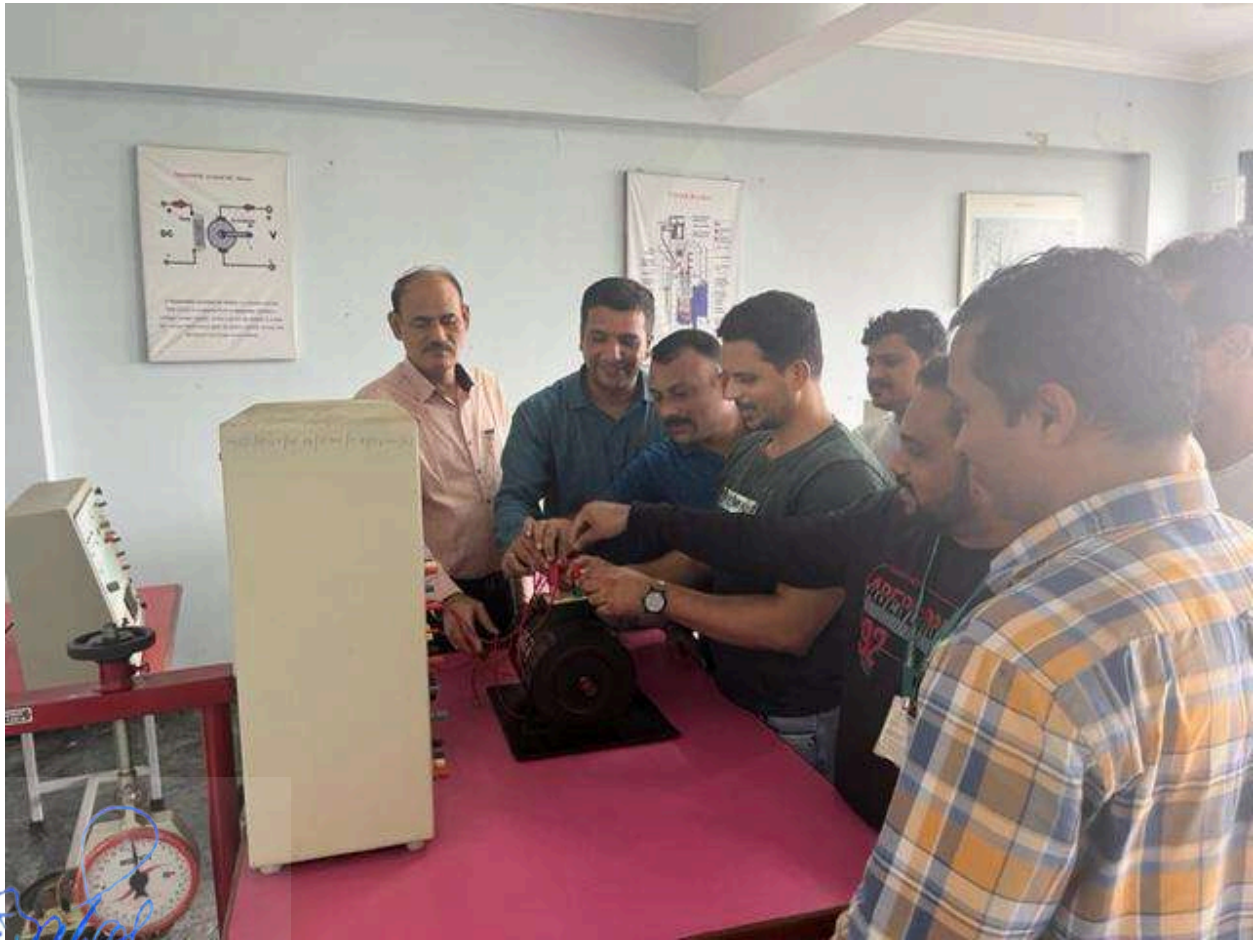
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J. S. J.

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Swahid

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T. J. J. J.

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One day workshop on Electrical Wiring

The One Day Workshop on electrical wiring was organized by the Department of Electrical Engineering and it commenced at 10:00 a.m. on 28th January, 2023 in the workshop Lab, PHCET. Prof. Aamir Shaikh introduced the speaker Mr. R. D. More, M.E. in Electrical Engineering having vast experience in the field. The Head of the Department, Ms. Pranita Chavan felicitated the speaker.

The speaker took over the session with an introductory focus on the importance of Electrical Wiring. The workshop was specially organized for enhancing skills of all the Lab technicians of Pillai HOCL Campus. The workshop helped the participants to learn about basics of electrical system, wiring connection, construction and operation of motor and Electricity bill calculation. The session started with the basic essential topics. Key concepts of wiring were covered.

Following topics were covered in workshop

- Details of connection from utility to house are demonstrated
- Different types of wiring connection like stair case wiring, Godown wiring
- Different types of fuses Switchboard, Fuse and MCBs working and ratings
- Concept of Earthing and its importance

Afternoon session consisted where all technicians were given a clear idea of the Wiring safety and Precautions. The session concluded with a question answer session at 4:00 p.m. There were around 12 participants for the Electrical Wiring. Also a feedback session was taken from all the participants.

Date 28th January, 2023

Venue: Electrical Workshop

Co-ordinator: Prof. Aamir Shaikh



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T. S. Srinivas

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

6 day Short Term Training Program on "Insights of Data Science and machine learning with its applications"

**DEPARTMENT OF
COMPUTER ENGINEERING
AND INFORMATION TECHNOLOGY
ORGANIZES**

**ONE WEEK
ISTE APPROVED**

**SHORT TERM TRAINING PROGRAM
ON**

**"Insights of Data Science
and Machine Learning with
its Applications"**

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

Accredited with an 'A' grade by NAAC in the First Cycle 2019
Reaccredited by NBA for Computer and Mechanical Engineering 2020
Winner of the First Position for Workplace Safety Awards 2019
Winner of Indian Merchant Chamber's Ramakrishna Bajaj National Quality Performance Excellence Trophy - 2019

Session Date
Mon 4th July, 2022 - Sat 9th
July 2022

Session Timing
10:30 A.M. TO 4:30 P.M.

Certificate
Registered participant will
receive certificates during the
valedictory function on the last
day subject to attendance.

For Registration & Enquiry:
Prof. Shamna Sadanand
9167741331
Prof. Akanksha Patil-
7387963369

PATRONS
Dr. K. M. Vasudevan Pillai, Chairman, MES
Dr. Daphne Pillai, Secretary, MES
Dr. Priam Pillai, CEO, MES
Mr. Franav Pillai, Dy. CEO, MES
Dr. Lata Menon, Dy. CEO, Rasayani Campus
Prof. Munawira Pillai, Director, MES
Dr. J. W. Bakal, Principal, PHCET

CONVENORS
Dr. Divya Chirayil (M) +91-982094007
dchirayil@mes.ac.in
Prof. Rohini Bhosale (M) +91-8976658138
rbhosale@mes.ac.in

CO-ORDINATORS
Prof. Snehal Shinde (M) +91-8087626518
srshinde@mes.ac.in
Prof. Kajal Patel (M) +91-8655456085
kajalpatel@mes.ac.in

ORGANIZING COMMITTEE
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Prof. Archana Augustine
Prof. Poonam Pathak
Prof. Monisha Mohan
Prof. Shamna Sadanand
Prof. Rupali Sathe
Prof. Siddhesh Khanvilkar
Prof. Dhanashri Sakhare
Prof. Shrutika Khobragade
Prof. Snehal Chitale
Prof. Nikita Saindane
Prof. Prajakta Pote
Prof. Prachi Sorte
Prof. Poonam Lad
Prof. Dipti Patil
Prof. Akanksha Patil

REGISTRATION DETAILS

1. Registration will be done on first come first serve basis, 40 seats are available.
Registration form link: <https://forms.gle/iCiH2q5yZyEEt5vC7>
2. Last date of registration is Thursday, 30th June, 2022.
3. Registration Charges are as follows:
ISTE Member: RS. 1200/-
Others: Rs. 1500/-
UPI ID: snehalshinde9821@oksbi
Mobile no. 8087626518
4. Mode of participation for PHCET faculty: Offline | Others: Online





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MAHATMA EDUCATION SOCIETY

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PHCET

Mahatma Education Society's Pillai HOC College of Engineering & Technology, Rasayani was established in 2009 and is affiliated to University of Mumbai and recognized by AICTE & DTE. In less than 9 years of span PHCET is recognized as one of the premier institutions delivering professional courses in Engineering & Technology at Undergraduate as well as at Post Graduate level. Currently PHCET offers following courses-

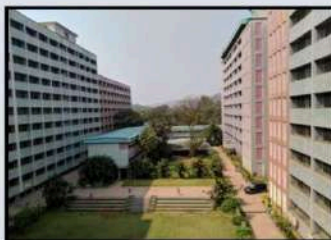
- Civil Engineering (UG, PG and PhD)
- Computer Engineering (UG, PG and PhD)
- Electronics & Computer Science (UG)
- Electronics and Telecommunication (PG)
- Electrical Engineering (UG)
- Information Technology (UG)
- Mechanical Engineering (UG & PG)

COURSE OBJECTIVES

The main objective of this STTP is to provide fundamental and practical knowledge on growing fields of Machine Learning and Data Science. This program covers the life cycle of Data Science. Statistics of Data Science by using Python. Various techniques of Machine Learning like linear regression, linear algebra with python. It will be helpful for participants to solve real world problems.

COURSE OUTCOME

Provide conceptual understanding of Data Science and ML to in real world applications. Provide knowledge and hands-on sessions on Python and 'R' programming.



COURSE CONTENTS

1. Lifecycle of Data Science
2. Statistics for Data Science
3. R Programming for Data Science
4. Problem formulation and solving
5. Introduction to ML
6. Linear regression
7. Maths for ML
8. Real World problems in AI/ML

RESOURCE PERSONS

- Dr. Bernard Menezes, IIT Bombay
- Dr. Yogesh Jadhav, SVKM's NMIMS, Navi Mumbai
- Dr. Darshan Ingle, Thadomal Sahani COE, Mumbai
- Dr. Bhushan Jadhav, Thadomal Sahani COE, Mumbai

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Mahatma Education Society's
Pillai HOC College of Engineering and Technology
Department of Computer Engineering & Department of Information Technology

Report on
One week ISTE approved STTP on “Insights of Data Science and Machine Learning with its Applications”

Date	July 4 - July 9, 2022
Department	Computer Engineering & Information Technology
Resource Persons	Dr. M. Bernard, Dr. Paritosh Pandya, Dr. Yogesh Jadhav, Dr. Darshan Ingle, Dr. Bhushan Jadhav, Mr. Rahul Kapse
Convenors	Ms. Rohini Bhosale, Dr. Divya Chirayil
Coordinators	Ms. Snehal Shinde, Ms. Kajal Patel

STTP Objective: The main objective of this STTP is to provide fundamental and practical knowledge on growing fields of Machine Learning and Data Science. This STTP covers the life cycle of Data Science, Statistics of Data Science by using Python. Various techniques of Machine Learning like linear regression, linear algebra with python. It will be helpful for participants to solve real world problems.




STTP Outcome: Provide conceptual understanding of Data Science and ML to in real world applications. Provide knowledge and hands-on sessions on Python and 'R' programming.

Department of Computer Engineering & Information Technology of Pillai HOC College of Engineering and Technology organized One week ISTE STTP on “Insights of Data Science and Machine Learning with its Applications” from July 4 - July 9, 2022. Total 47 faculty members from various parts of the state participated in the STTP. There were many eminent speakers for this one week STTP.

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One Week ISTE Approved
Short Term Training Program (STTP)
 on
"Insights of Data Science and Machine Learning
with its Applications"
 Date: 4th to 9th July 2022
 Venue - Conclave I and Computer Center
 Organized By
Department of Computer Engineering and Information Technology
 Mahatma Education Society's
Pillai HOC College of Engineering and Technology
 Rasayani, Raigad - 410207



DEPARTMENT OF
COMPUTER ENGINEERING
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Accredited with an 'A' grade by NAAC in the First Cycle 2019
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 Winner of Indian Merchant Chamber's Ramakrishna Bajaj National Quality Performance Excellence Trophy - 2019

<p>Session Date Mon 4th July, 2022 - Sat 9th July 2022</p> <p>Session Timing 10:30 A.M. TO 4:30 P.M.</p> <p>Certificate Registered participant will receive certificates during the valedictory function on the last day subject to attendance.</p> <p>For Registration & Enquiry: Prof. Shamma Sedanand 9167741331 Prof. Akanksha Patil- 7387963369</p>	<p style="text-align: center;">PATRONS</p> <p>Dr. K. M. Vasudevan Pillai, Chairman, MES Dr. Daphne Pillai, Secretary, MES Dr. Priam Pillai, CEO, MES Mr. Franav Pillai, Dy. CEO, MES Dr. Lata Menon, Dy. CEO, Rasayani Campus Prof. Munawira Pillai, Director, MES Dr. J. W. Bakal, Principal, PHCET</p> <p style="text-align: center;">CONVENORS</p> <p>Dr. Divya Chirayil (M) +91-982094007 dchirayil@mes.ac.in Prof. Rohini Bhosale (M) +91 - 8976658138 rbhosale@mes.ac.in</p> <p style="text-align: center;">CO-ORDINATORS</p> <p>Prof. Snehal Shinde (M) +91-8087626518 srshinde@mes.ac.in Prof. Kajal Patel (M) +91-8655458085 kajalpatel@mes.ac.in</p>
<p style="text-align: center;">REGISTRATION DETAILS</p> <p>1. Registration will be done on first come first serve basis, 40 seats are available. Registration form link: https://forms.gle/GiH2q5yZyEE15yCZ</p> <p>2. Last date of registration is Thursday, 30th June, 2022.</p> <p>3. Registration Charges are as follows: PHCET members- Rs. 1500/- ISTE members- Rs. 1200/- Others- Rs. 400/- UPI ID: snehalshinde9821@oksbi Mobile no. 8087626518</p> <p>4. Mode of participation for PHCET faculty- Offline Others: Online</p>	
	
<p style="text-align: center;">ORGANIZING COMMITTEE</p> <p>Prof. Ekta Ukey Prof. Archana Augustine Prof. Poonam Pathak Prof. Monisha Mohan Prof. Shamma Sadanand Prof. Rupali Sathe Prof. Siddhesh Khanvilkar Prof. Dhanashri Sakhare Prof. Shrutika Khobragade Prof. Snehal Chitale Prof. Nikita Saindane Prof. Prajakta Pote Prof. Prachi Sorte Prof. Poonam Lad Prof. Dipati Patil Prof. Akanksha Patil</p>	



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Dr. Divya Y. Chirayil, Head of Information Technology department, PHCET explained the need for organising the STTP and welcomed all the dignitaries and participants for inauguration. Brief introduction about college was given to all the participants.



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Day-1 session started with the keynote speech on Security meets AI by Dr. Bernard Menezes Dept. of Computer Science and Engineering, IIT Bombay and the keynote speech on Automatic Raag Recognition system was given by Dr. Paritosh Pandya Professor, IIT Bombay.

The post Lunch session was on Life Cycle of Data Science and Problem Formulation and Solving session was taken by Mr. Rahul Kapse, PHCET. The contents covered in the session are as follows:

Life Cycle of Data Science: Preparation, pre-processing, modelling, analytics, evaluation and visualization.

Problem Formulation and Solving: Learn to translate real-world problems in terms of AI/ML abstractions. Formulating Real World Problems for AI/ML Intuitive and Simple Algorithms.

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Day-2 session was taken by Dr. Yogesh Jadhav, SVKM's NMIMS, Navi Mumbai. The contents for the session were as follows:

- Problem Formulation and Solving
- Hands on session on Supervised and Unsupervised Learning Classification and its applications
- Time Series Analysis
- Properties and Prediction Models

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Day-3 was a hands-on session by Dr. Darshan Ingle, Thadomal Sahani COE, Mumbai. The following points were covered in the session:

- Introduction to Machine Learning
- Mathematics behind Linear Regression

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Day-5 session was a Hands on session by Dr. Bhushan Jadhav, Thadomal Sahani COE, Mumbai.

The contents covered in the session are as follows:

- R programming fundamentals Along with Numpy
- Pandas
- Scipy
- Matplotlib

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The session ended with question answering followed by Vote of Thanks by Ms. Rohimi Bhosale, Head of Computer Engineering Department, PHCET to the college management, Staff, Speakers, Co-ordinators and all the participants. Throughout the session two online tests were conducted for the assessment of participants learning skills.

Individual Daily Feedback was taken from all the participants. Participants gave good feedback for each day and congratulated the STTP organising team and speakers in the end for all the efforts. The certificate was given to all the participants.



T. Wankhal

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Skill Upgradation Workshop on “Computer H/W and Networking Components”

Date June 03 & June 10, 2023

Platform Lab D-313

Resource Person Ms. Snehal Patil

Coordinator Mr. Rahul Kapse

Department Computer Engineering

The purpose of this Skill upgradation workshop for Non-Teaching Technical staff is to encourage and support them to actively pursue technical skill development for performing their **role** in the institute and prepare them for change in technology and curriculum. Skill upgradation is necessary for the benefit of institutions as well as their personal growth. Pillai HOC College of Engineering and Technology, Department of Computer Engineering organized the workshop on “**Computer H/W and Networking Components**” for Non-Teaching Technical staff on the following dates 3rd June & 10th June 2023. Various topics in computer Hardware and Networking Components were unfolded by the speaker during the workshop. The following are some of the topics discussed in the session by the speaker:

Contents:

- Introduction to Computer Hardware Components and their working.
- Networking Components

Event Outcome:

The overall goal of this workshop was to introduce participants to the Computer Hardware and Networking components. Additionally, the workshop gave insight into different computer hardware components for non-teaching Technical staff.

Event Feedback:

The workshop was attended by the non-teaching technical staff. We received a good response from them and also they gave very good feedback. All the concepts were explained clearly and understandably. At the end of the workshop, Prof. Rahul Kapse (Faculty Coordinator) thanked HoDs, Faculty members, Management and participants for their active support for making the programme successful.

Photos:



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Sneha Pillai

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Industry sponsored & ISTE approved Six Days Short Term Training Program on “Challenges and Opportunities in Sustainable Energy Conservation, Utilization and Its Business Strategy”, 19/09/ 2022 to 24/09/2024



**INDUSTRY SPONSORED & ISTE APPROVED SIX DAYS
SHORT TERM TRAINING PROGRAM
ON
CHALLENGES AND OPPORTUNITIES IN
SUSTAINABLE ENERGY CONSERVATION,
UTILIZATION AND ITS BUSINESS STRATEGY
DURING SEPTEMBER 19-24, 2022**

Organized by
PILLAI HOC COLLEGE OF ENGINEERING AND TECHNOLOGY, RASAYANI

Supported by



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Dist. Raigad, Pin-410 207**

Industry Sponsored & ISTE Approved Six Days Short Term Training Program							
On							
"CHALLENGES AND OPPORTUNITIES IN SUSTAINABLE ENERGY CONSERVATION, UTILIZATION AND ITS BUSINESS STRATEGY"							
Date: September 19-24, 2022							
Venue: Conclave-I, PHCET Rasayani							
Organized by							
Pillai HOC College of Engineering & Technology, Rasayani							
STTP SCHEDULE							
Conveners:- Dr. G.V. Patil, Prof. Raju Narwade & Prof. Pranita Chavan							
Session	Time	Day 1 - 19th September 2022	Day 2 - 20th September 2022	Day 3 - 21st September 2022	Day 4 - 22nd September 2022	Day 5 - 23rd September 2022	Day 6 - 24th September 2022
		INaugural Function					
Session 1	10:30 am To 11:30 am	Dr. Ashok Khade, Managing Director, DAS Offshore 	Dr. Pratibha Sharma, Professor, IIT Bombay 	Mr. Nemade S. Nikhil Comforts 		Dr. Pramod Sharma, Deputy Manager, Suzlon Energy, Pune 	Mr. Kamal Pandey, Scientist/Engineer, IRS, ISRO  Dr. Praveen Kumar Thakur, ISRO Scientist, IRS, ISRO 
Session 2	11:30 am To 12:30 pm	Mr. Sandosh Naikar, Consultant 	Dr. Pavan Kumar Hari, Professor, IIT Bombay 	Dr. Manvendra Vashishtha, PHCET, Rasayani 	INDUSTRIAL VISIT (DAS Offshore & Crystal Industrial Syndicate Pvt. Ltd.)	Dr. Pramod Sharma, Deputy Manager, Suzlon Energy, Pune 	Mr. Palakshi Karjigi, Ex.- Head Exploration (NV) ONGC LTD (11:00 am to 12:00 pm) 
Session 3	12:30 pm To 01:30 pm	Dr. R.C. Prasad, Professor, Dept. of Mechanical Engg., PHCET, Rasayani 	Mr. Mahadev Sabale, Manager, TATA Power 	Prof. Prashant Jain, KJSCE, Vijayvihar 		Dr. Sandeep Joshi, Principal, Pillai College of Engineering, Rasval 	Mr. Pratik Prasad, SECL, New Delhi (12:00 pm to 01:00 pm) 
Session 3	01:30 pm To 02:00 pm		Addonix Technology live demonstration on Augmented reality and virtual reality Remarks by Dr. M.D. Nader, Dr. Manvendra Vashishtha & Prof. Asokan S.				Valedictory Function
		Remarks by Dr. G.V. Patil & Dr. Subas Lihale		Remarks by Dr. G.V. Patil, Ms. Ronita Fawn & Mr. Sunilraj Rajgud		Remarks by Prof. Raju Narwade & Dr. M.D. Nader	Remarks by Dr. Karthik Nagarajan & Ms. Pranita Chavan



J. Narwade

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World Standard Day Celebration, 15/10/2022



Mahatma Education Society's

Pillai HOC College of Engineering and Technology, Rasayani

Department of Mechanical and Automobile Engineering

Report

On

"World Standards Day celebration"

Date: 15th October 2022



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Title: "World Standards Day celebration in association with BIS"

Organized by: Standards Club of Mechanical Department, PHCET in collaboration with Bureau of Indian Standards, Mumbai Branch Office-II

Event Date: 15th October 2022 at 10:30 a.m.

Mode of Conduct: Physical

Venue: Ground floor lawn

Name of the Faculty Coordinator: Mr. Vaibhav Bhagat

Speakers from BIS : 1. Mr. Ashish Wakle - Scientist C/Deputy Director, BIS

2. Pushpendra Mishra – Standard Promotion officer, BIS

Target Audience: SE, TE, BE students of Mechanical, Civil, Electrical, and Computer Branches

No of Students Participated: 101

No of Faculty Participated: 11



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Standard Club PHCET
In Collaboration with
BIS, Western Regional Office

CELEBRATING
World Standards Day

"14 October is celebrated as World Standards Day every year, Aiming to spread awareness about the importance of standardisation in the global economy among consumers, regulators, and industries."

Requests Your Presence At

- FLAG HOISTING
- APP LAUNCH
- DOOR TO DOOR CAMPAINGING

Venue :- Diploma Lawn, near Old Diploma Building,
Pillai Hoc Campus, Rasayani.

Date :- 15/10/2022 .

Time :- 10:30am

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Seminar on Solar Energy for Sustainable Development, 25/04/2023

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

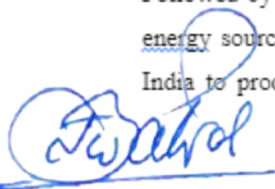
Seminar on "Solar Energy for Sustainable Development"

Date and Time	25-04-2023, 10:30 am to 1:00 pm
Venue	Conclave-I
Resource Person	Mr. Mahadeo Sable (Zonal Head - Solar O&M, The Tata Power Company Limited)
Coordinator	Mr. Sunil Singh Rajput
Department	Mechanical Engineering

Mr. Mahadeo Sable is currently working as Zonal Head - Solar O&M, The Tata Power Company Limited. He has received MBA degree from Times Business School and Post-Graduation in Advanced Strategic Decision Making from IIMK. He completed PG in Electricity Regulation and Certified Energy Manager from BEE. He has an Engineering background. HE has an extensive and hands on field experience for more than 23 years in Solar Projects, Solar O&M, Wind Power, Hydro Power, O&M of Sea Port equipment, DG Power Plants based on HFO & Natural Gas. He has done installation, testing, commissioning and on-site/off-site support for Marine and Offshore equipments related to Power Generation and Propulsion. He is currently managing large scale Solar Assets in MH, TN, TS and KL having more than 20 plant locations spread across the geography. He also ensures the quality, compliances/approvals, stabilization of O&M for under construction sites in these states and also manages civil function for Pan India Solar Sites.

Mr. Mahadeo Sable explained about current energy scenario in world as well as in India. Starting with need and role of higher energy production in development of country he explained the importance of energy production. Mr. Sable also compared conventional energy sources with renewable and limitations and future crisis over conventional energy sources.

Followed by that Mr. Sable explored huge potential country have to produce energy by using solar as energy source. Mr. Sable also explained different initiatives taken and targets set by government of India to produce electricity by solar as a source for upcoming years. He also explained financial



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calculations involved and how country can stop majority of our foreign exchange going off for fuel expenses. He also explained how solar energy production can boost economy having sustainable development simultaneously. Mr. Sable also explained how the country can walk on a path of sustainable development and can become energy independent by shifting our conventional energy sources to renewable and particularly

Being an expert in the field Mr. Sable explained different stages involved in commissioning solar power plant and operations involved in operating and maintain solar power plant. Mr. Sable also guide students about career opportunities available in solar and renewable energy sector.

The session ended with Question Answer session and finally concluded by vote of thanks by Dr. G. V. Patil, Head of Mechanical Engineering Department.



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**Celebration of Foundation Day, Orientation Program by Bureau of Indian Standards
on Quality Consciousness, 04/08/2022**



Mahatma Education Society's

Pillai HOC College of Engineering and Technology, Rasayani

Department of Mechanical and Automobile Engineering

Report

on

**"Orientation Program by Bureau of Indian
Standards on Quality Consciousness"**

Date: 4th August 2022



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**Title: "Orientation program by Bureau of Indian Standards on Quality
Consciousness"**

Organized by: Mechanical and Automobile Department, PHCET in collaboration
with Bureau of Indian Standards, Mumbai Branch Office-II

Category/ Theme: Orientation Program

Event Date: 4th August 2022 at 11:30 a.m.

Mode of Conduct: Physical

Venue: Conclave-2 , 3rd Floor

Name of the Faculty Coordinator: Mr. Vaibhav Bhagat

Speakers: 1. Mr. Ashish Wakle - Scientist C/Deputy Director, BIS

2. Pushpendra Mishra – Standard Promotion officer, BIS

Target Audience: SE, TE, BE students of Mechanical, automobile, Civil and
Electrical Branches

No of Students Participated: 122

No of Faculty Participated: 10



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Description:

Bureau of Indian Standards (BIS) is the National Standards body of India, Working under the ministry of Consumer Affairs, Government of India. It works for harmonious development of Standards, Certification; Testing & Consumer Awareness.

BIS has taken the initiative of creating Standards Clubs in educational institutions comprising teachers and students as members. Through a variety of activities under these Clubs, young talents get learning opportunities in the field of quality and standardization.

In these continuations BIS has conducted an Orientation Programme on Quality Consciousness 4th August 2022, in which Scientific officer of BIS Shri Ashish Wakle explained the activities carried out by BIS and the benefit of forming Standards Club in School Colleges and Shri Pushpendra Mishra – Standard Promotion officer explained about Standards Club benefits & Guidelines on forming standards club.

The orientation program was held in the conclave-2 in which about 120 approx. students of Mechanical, Civil, Automobile and Electrical branches were present. In this Program the officially the Standard Club formation is done.



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Bureau of Indian Standards Mumbai Branch Office-II

BIS is organizing an orientation Programme for the Engineering Students on 04th August 2022, from 1130 am – 1230 pm, at Pillai HOC College of Engineering & Technology, Rasayani MH-410207



LEARNING OBJECTIVES

Promote quality consciousness among young engineering students
Introduction to quality assurance activities carried out by Government of India

SPEAKER



1. Sh. Ashish Wable - Scientist C/District Director
Subject - About BIS, Activities of BIS, Standard Formulation
2. Pradipendra Mishra - Standard Promotive officer
Subject - Standards Club & Guidelines on standards club



WHO SHOULD ATTEND

Engineering Students & Faculty members of Civil, Electrical, Mechanical & Chemical

FEE & DISCOUNT

Nil



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World Consumers Rights Day celebration in association with BIS, 17/03/2023



Mahatma Education Society's

Pillai HOC College of Engineering and Technology, Rasayani

Department of Mechanical and Automobile Engineering

Report

on

**"World Consumers Rights Day
celebration"**

Date: 17th March 2023



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Dist. Raigad, Pin-410 207

Title: "World Consumers Rights Day celebration in association with BIS"

Organized by: Mechanical Department, PHCET in collaboration with Bureau of Indian Standards, Mumbai Branch Office-II

Date: 17th March 2023 at 10:30 a.m.

Mode of Conduct: Physical

Venue: Seminar hall, Mech Dept.-Third floor and Campus lawn

Name of the Faculty Coordinator: Mr. Vaibhav Bhagat

Speakers: 1. Sh. Vivek Reddy - Scientist B, BIS

2. Sh. Pushendra Mishra – Standard Promotion officer, BIS

Target Audience: SE, TE, BE students of Mechanical, Civil and Electrical Branches

No of Students Participated: 142

No of Faculty Participated: 11



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Description:

Bureau of Indian Standards (BIS) is the National Standards body of India, Working under the ministry of Consumer Affairs, Government of India. It works for harmonious development of Standards, Certification; Testing & Consumer Awareness.

BIS has taken the initiative of creating Standards Clubs in educational institutions comprising teachers and students as members. Through a variety of activities under these Clubs, young talents get learning opportunities in the field of quality and standardization.

Every year 15th March is celebrated as the World Consumer Rights Day. World Consumer Rights Day is an annual international event that signifies celebration and solidarity in the international consumer movement, demanding that consumer rights are to be respected and protected. The event also gives a chance to protest against the market abuses and social injustices which undermine those rights. This year the theme promoted is "Empowering consumers through clean energy transitions."

As a part of the BIS World Consumer Rights Day Celebrations, Standard Club, PHCET in collaboration with the Mumbai Office-II of BIS, has carried out Awareness programme and door to door activity on 17th March 2023 at 10.30 a.m., In which Mr. Vivek Reddy - Scientist B, BIS and Mr. Pushpendra Mishra – Standard Promotion officer, BIS explained The Importance of standards, Consumer rights, Need of Clean Energy Transition and the Newly developed app by BIS i.e. BIS Care.

The information also given regarding with a Quality connects campaign 3.0 to youth volunteers. After this event new students registered & participated to spread awareness through BIS Quality Connect App. They were imparted training through physical mode regarding contents, presentation and use of BIS app, for 3 hours. The volunteers connected with households during the campaign and created awareness about BIS, its activities, Hallmarking HUID, BIS care app and its contents. A video with message from DG, BIS and activities of BIS was shown to all households in Hindi and Marathi language. The volunteers were guided and provided with the required support to complete their assignment, from time to time as and when required.

In view of the World Consumer Rights Day 2023, the flag of ceremony regarding Door-to-Door campaign is also done after the training, all the Youth Volunteers were flagged off for Door-to-Door Campaigning by Dr. J W. Bakal, (Principal). On this occasion Mr. Vivek Reddy (Scientist B), Mr. Pushpendra Mishra – Standard Promotion officer-BIS, Dr. G. V. Patil, (HOD-Mech), Dr. R.C.Prasad, Mr . Vaibhav Bhagat (faculty Coordinator), other faculty of the college and student volunteer were present



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Description:

Every year, World Standards Day is celebrated on October, 14th to spread awareness about the significance of standardization in the global economy among regulators, consumers, and industries.

Standards Clubs , PHCET in collaboration with Bureau of Indian Standards, Western Regional Office, Mumbai celebrated World Standards Day 2022 on 15th October 2022 with the theme, '**Standards for the Sustainable Development Goals: A Shared Vision for a Better World**'. As a part of World Standards Day celebrations, BIS also conducted a Quality Connect Program (Door-to-Door campaign) through Volunteers to create awareness among the masses about BIS, standards club and its activities.

Brief of the programme:

The programme was started off from the campus ground of Pillai HOC College of Engineering and Technology, Rasayani, Raigad. The programme started at 10.30 am with registration and listing of Volunteers. 101 volunteers participated in the programme. The volunteers were provided with the Kits containing BIS pamphlets on National Building code (Guide for Homeowners), Hallmarking and BIS Care app, T-Shirts and caps. The badges with the name of the volunteer were also given. The volunteers were briefed about BIS, Importance of World standards day by Mr. Ashish Wakle and also on the activities to be taken up under the campaign, how to use the app for the campaign. The flagging off of the campaign was done by Dr.Jagdish W. Bakal, Principal, Pillai HOC College of Engineering and Technology, Rasayani, Raigad at 12.30 pm.



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Some photos of the event:



A handwritten signature in blue ink, appearing to read 'T. J. J. J.', written over a horizontal line.

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**One Day Training Program on "General Machine Servicing and Maintenance",
07/01/2023**

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

One Day Training Program on "General Machine Servicing and Maintenance"

Date and Time	07-01-2023, 10:30 am to 2:30 pm
Venue	Machine shop and Workshop
Resource Person(s)	Mr. Atul Jade and Mr. Vaibhav Bhagat
Coordinator	Mr. Vaibhav Bhagat
Department	Mechanical Engineering
Objectives	To train non-Teaching staff in basic care and maintenance of laboratory equipment, workshop and machine shop equipment. To train non-Teaching staff to identify and undertake minor repairs to identify symptoms of major repairs to avoid them and to identify major repairs

One Day Training Program on "General Machine Servicing and Maintenance" was organized by Department of Mechanical Engineering for non-Teaching staff members. Mr. Atul Jade and Mr. Vaibhav Bhagat were appointed as Resource Persons for this activity. The primary responsibility for the care and maintenance of all equipment in laboratory, machine shop and workshop rests with concerned in-charge non-Teaching staff. Thus, staff should understand how their equipment works, what its limitations are, and what it can and cannot do. Both resource person explained a systematic approach to understand the principle of working and functionality of a machine. The importance of machine manuals was also explained to participants.

Mr. Atul Jade who has worked as Workshop Superintend previously explained the need of basic care, servicing and preventive maintenance for machines like lathe machine, milling machine, vertical drilling machine etc. Demonstration of conduction of general servicing was given to participants.



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Mr. Vaibhav Bhagat who is currently working as Assistant Professor and Workshop Superintendent in PHCET explained break down maintenance aspects of machineries available. How to predict breakdown and prevent steps were explained along with how to carry out minor repairs of machineries. Mr. Vaibhav Bhagat also explained facts and reasons which can lead to major breakdown along with how to identify major breakdown. Mr. Bhagat also explained steps to be carried if in case breakdown occurs if the machine is in operation and what all are safety measures to be followed in such case.

The session ended with Question Answer session and finally concluded by vote of thanks by Dr. G. V. Patil, Head of Mechanical Engineering Department.



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One Day Hands on Training Program on AutoCad, 21/01/2023

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

One Day Hands on Training Program on Auto CAD"

Date and Time	21-01-2023, 10:30 am to 4:00 pm
Venue	FEA CAD CAM Lab (D-312)
Resource Person(s)	Mr. Aditya Shinde
Coordinator	Mrs. Ashwini Kadam
Department	Mechanical Engineering
Objectives	To train non-Teaching staff to understand the fundamental concepts and features of AutoCAD 2021. To train non-Teaching staff to the basic features and commands in AutoCAD 2021, and to understand techniques for creating, editing, and printing drawings

One Day Hands on Training Program on "Auto CAD" was organized by the Department of Mechanical Engineering for non-Teaching staff members. Mr. Aditya Shinde was a Resource Person for this activity and Mrs. Ashwini Shinde was a coordinator for this activity. Mr. Aditya Shinde has over 8 years of using and teaching AutoCAD to Engineering Students.

The primary objective of this activity was to teach non-Teaching staff the basic commands necessary for creating 2D drawing, design, and drafting using AutoCAD. Resource person also explained an approach to read Auto CAD drawing.



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Following topics were introduced to participants under this activity

Introduction to Autodesk AutoCAD	Basic Drawing & Editing Commands
Starting the Software	Drawing Lines
User Interface	Erasing Objects
Working with Commands	Drawing Lines with Polar Tracking
Cartesian Workspace	Drawing Rectangles
Opening an Existing Drawing File	Drawing Circles
Saving a Drawing File	Undo and Redo Actions
Introduction to Autodesk AutoCAD	Projects - Creating a Simple Drawing
Starting the Software	Create a Simple Drawing
User Interface	Create Simple Shapes
Working with Commands	Selecting Objects for Editing
Cartesian Workspace	Moving Objects
Opening an Existing Drawing File	Copying Objects
Saving a Drawing File	Rotating Objects
	Scaling Objects
	Mirroring Objects
	Dimensioning Concepts
	Adding Linear Dimensions
	Adding Radial and Angular Dimensions

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Department of Mechanical Engineering
One Day Hands on Training Program on Auto CAD
Attendance Sheet

Date - 21-01-2023 Time- 10:30 am to 4:30 pm

Sr. No	Name	Signature (10:30 am to 1:00 pm)	Signature (1:45 pm to 4:30 pm)
1	Mayuri M. Patil	<i>Patil</i>	<i>Patil</i>
2	Sarvesh T. Yashwantrao	<i>SY</i>	<i>SY</i>
3	Tushar A Kambale	<i>Kambale</i>	<i>Kambale</i>
4	Rishant S. Kamble	<i>Kamble</i>	<i>Kamble</i>
5	Aksh S. Rasal	<i>Rasal</i>	<i>Rasal</i>
6	Narmade. Khandagale	<i>Khandagale</i>	<i>Khandagale</i>
7	S.V. Bhalerao	<i>Bhalerao</i>	<i>Bhalerao</i>
8	Ashwin Bhalerao	<i>Bhalerao</i>	<i>Bhalerao</i>
9	Rutuja A Bandal	<i>Bandal</i>	<i>Bandal</i>
10	Sunil B Kambale	<i>Kambale</i>	<i>Kambale</i>
11			
12			
13			
14			
15			
16			
17			

AK
Mrs. Ashwini Kadam
(Coordinator)

G.V. Patil
Dr. G. V. Patil
(HOD Mech)

T. W. Patil

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Report on One week ISTE approved STTP on “Insights of Data Science and Machine Learning with its Applications”

Date	July 4 - July 9, 2022
Department	Computer Engineering & Information Technology
Resource Persons	Dr. M. Bernard, Dr. Paritosh Pandya, Dr. Yogesh Jadhav, Dr. Darshan Ingle, Dr. Bhushan Jadhav, Mr. Rahul Kapse
Convenors	Ms. Rohini Bhosale, Dr. Divya Chirayil
Coordinators	Ms. Snehal Shinde, Ms. Kajal Patel

STTP Objective: The main objective of this STTP is to provide fundamental and practical knowledge on growing fields of Machine Learning and Data Science. This STTP covers the life cycle of Data Science, Statistics of Data Science by using Python. Various techniques of Machine Learning like linear regression, linear algebra with python. It will be helpful for participants to solve real world problems.

STTP Outcome: Provide conceptual understanding of Data Science and ML to real world applications. Provide knowledge and hands-on sessions on Python and ‘R’ programming.

Department of Computer Engineering & Information Technology of Pillai HOC College of Engineering and Technology organized One week ISTE STTP on “Insights of Data Science and Machine Learning with its Applications” from July 4 - July 9, 2022. Total 47 faculty members from various parts of the state participated in the STTP. There were many eminent speakers for this one week STTP.

Dr. Divya Y. Chirayil, Head of Information Technology department, PHCET explained the need for organizing the STTP and welcomed all the dignitaries and participants for inauguration.

Brief introduction about college was given to all the participants.

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Day-1 session started with the keynote speech on Security meets AI by Dr. Bernard Menezes Dept. of Computer Science and Engineering, IIT Bombay and the keynote speech on Automatic Raag Recognition system was given by Dr. Paritosh Pandya Professor, IIT Bombay.

Paritosh

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The post Lunch session was on Life Cycle of Data Science and Problem Formulation and Solving session was taken by Mr. Rahul Kapse, PHCET. The contents covered in the session are as follows:

Life Cycle of Data Science: Preparation, pre-processing, modelling, analytics, evaluation and visualization.

Problem Formulation and Solving: Learn to translate real-world problems in terms of AI/ML abstractions. Formulating Real World Problems for AI/ML Intuitive and Simple Algorithms.



J. J. J.

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Day-2 session was taken by Dr. Yogesh Jadhav, SVKM's NMIMS, Navi Mumbai. The contents for the session were as follows:

- Problem Formulation and Solving
- Hands on session on Supervised and Unsupervised Learning Classification and its applications
- Time Series Analysis
- Properties and Prediction Models



Jadhav

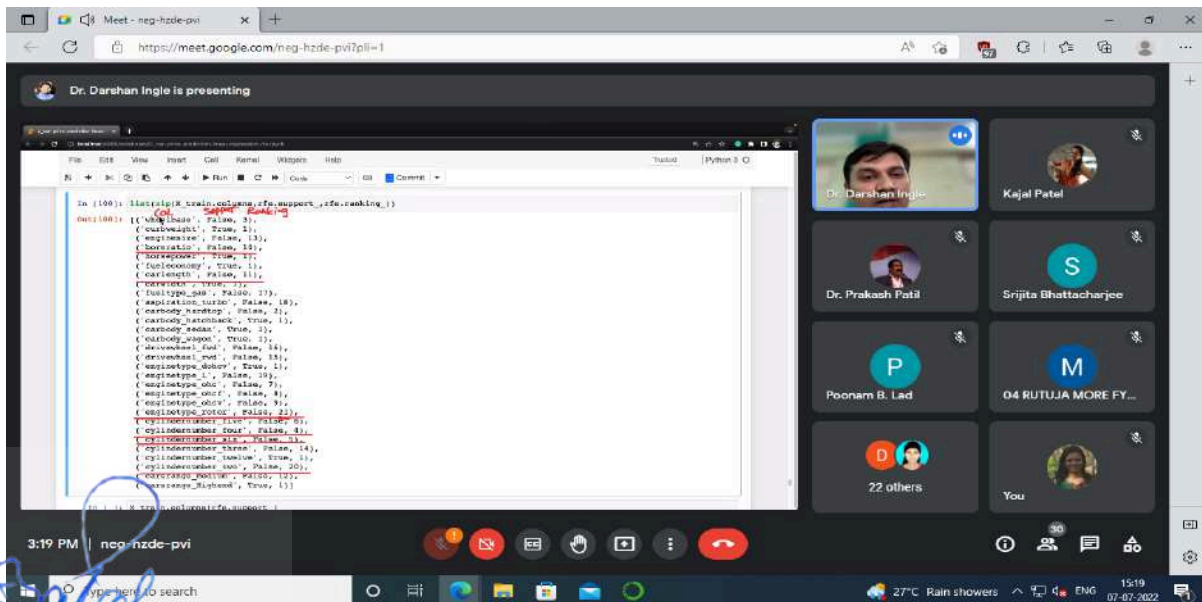
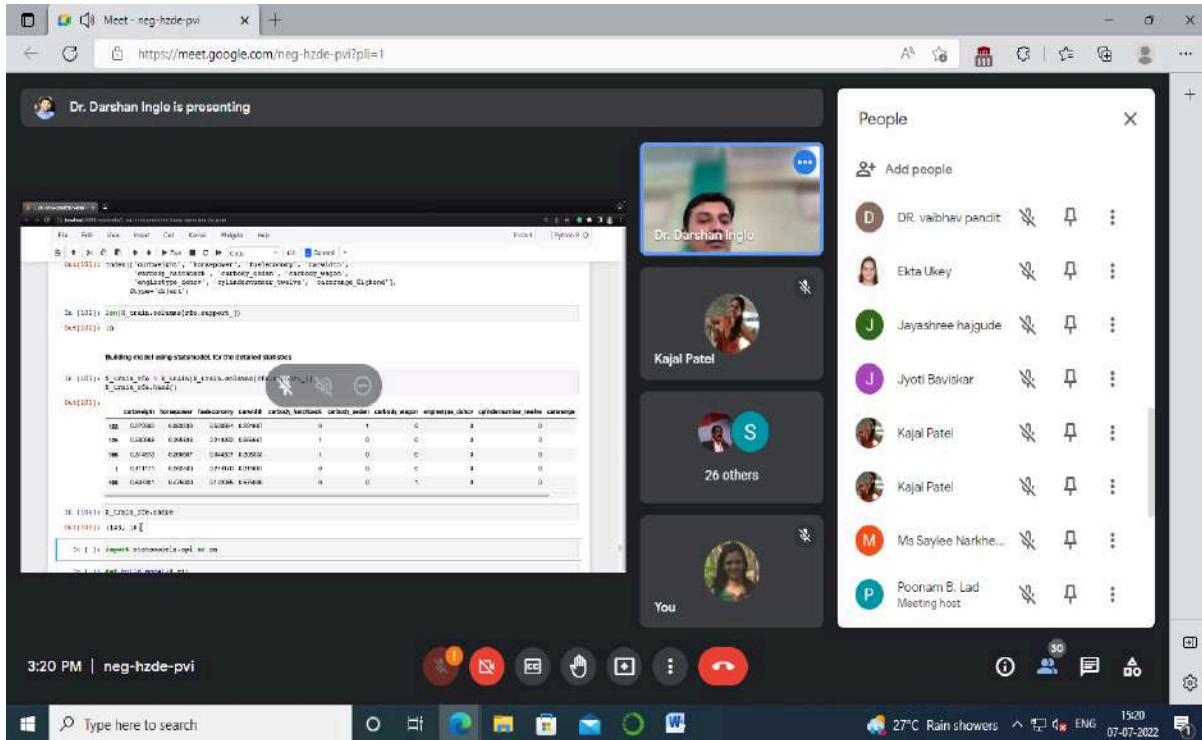
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Day-3 was a hands-on session by Dr. Darshan Ingle, Thadomal Sahani COE, Mumbai. The following points were covered in the session:

- Introduction to Machine Learning
- Mathematics behind Linear Regression



Dr. Darshan Ingle

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Day-4 session was continuation of Day 3 session by Dr. Darshan Ingle on

- Linear Regression industry demonstration Part 1
- Linear Regression industry demonstration Part 2



Day-5 session was a Hands-on session by Dr. Bhushan Jadhav, Thadomal Sahani COE, Mumbai.

The contents covered in the session are as follows:

- R programming fundamentals Along with Numpy
- Pandas
- Scipy
- Matplotlib

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The session ended with question answering followed by Vote of Thanks by Ms. Rohini Bhosale, Head of Computer Engineering Department, PHCET to the college management, Staff, Speakers, Co-ordinators and all the participants. Throughout the session two online tests were conducted for the assessment of participants' learning skills.

Individual Daily Feedback was taken from all the participants. Participants gave good feedback for each day and congratulated the STTP organizing team and speakers in the end for all the efforts. The certificate was given to all the participants.

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HANDS ON WORKSHOP ON ANDROID APPLICATION DEVELOPMENT

To train tech-minded participants Department of Information Technology has successfully conducted 2 days Hands On Workshop on Android Application Development. The event was conducted on 05/08/2022 and 06/08/2022 in the Computer Centre at lab 313 between 10:00 AM to 4:30 PM. On this momentous occasion it was our proud privilege that we were blessed with Ketan Anil Khapare, (B.E.(ExTC)-Project Manager,S.M.A.R.T.Technologies,) and Akshayee Bharat Dhule (M.E.(ExTC)-Software Engineer, S.M.A.R.T. Technologies) as a speaker.

The event began with the formal introduction of guest speakers. To express our affection and reverence towards our guests IT Department HOD Dr. Divya Chirayil and ISTE coordinator Prof. Rupali Sathe felicitated all the guests with bouquets.



On the first day of the workshop they started with installation of android and some basic operations of android.



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On the second day they started with some advanced operations such as Calculator app, Intent app, Number list, Menu bar, etc. Students enthusiastically asked all their doubts which were running in their minds and all these doubts were cleared at the same time by the professionals.

The event was led and executed successfully under the guidance of ISTE Co-ordinator Prof. Siddhesh Khanvilkar and Prof. Rupali Sathe. About 110 students and faculty of various departments willingly participated in this event to make this event successful. All the participants were awarded with workshop completion certificates. 2 days of Hands on workshop was mind blowing and once in life time experience for all the participants.

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Hands on workshop on “Flutter”

Google Developer Student Club PHCET in collaboration with Association of Coders and Encoders PHCET organized an Event “Developers Mela” for the academic year 2022-2023.

Event Name: DEV Mela

Event coordinator: GDSC PHCET X ACE PHCET

Faculty coordinator: Ms. Komal, Ms. Prachi

Date: 10th March, 2023

Time: Technical – 10:30 a.m. – 12:30 p.m.

Non-Technical – 1:30 p.m. – 4:30 p.m.

Venue: D-413 Lab, Engineering Building & Artificial Lawn



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The Developers Mela event held on 10th of March at Pillai Hoc College was a huge success. The event was organized to bring together developers, programmers, and software engineers. The Event was attended by faculty and 300+ students from all the technical as well as non-technical branches.

The event was conducted in two halves; the first half was all about technical learnings, which covered the topic of – Flutter, Firebase and Angular.

The Flutter session covered the basics of building mobile apps using the Flutter framework, including widgets, layout, and navigation.

The Firebase session focused on how to build real-time applications using the Firebase platform, including authentication, database, and storage. The Flutter Extended session covered advanced topics such as animation, state management, and debugging along with connectivity using firebase. Ms. Komal & Ms. Prachi took these sessions to another level. The following was continued by Khushnuma bringing on Single Page Applications using Angular. All web enthusiasts and Flutter Devs were really into it, they also received refreshments for the same.

The event had a vibrant and energetic atmosphere with attendees engaged in discussions and sharing ideas with one another. Apart from technical learnings, attendees also participated in various activities and contests organized by the Team. The event was sponsored by Traveling- A

Tours and Travels sponsor.

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The second half was started with Saraswati Vandana and lighting the lamp by our Principal Dr. J. W. Bakal Sir, the event had fun games like Box Cricket, Test Your Shot, Rapid Cup Relay, Dumb Charades, XO Cups and Badminton. These games provided an opportunity for attendees to unwind and connect with each other in a casual setting, which was later followed by a closing ceremony where the organizers thanked the attendees, faculties, sponsors, and partners for making the event a grand success.

Overall, the Developers Mela event was a great success. It provided a platform for developers to connect, learn and grow in their careers. The event was well-organized, and the sessions were informative and engaging, making it a valuable experience for all attendees. The inclusion of fun games like box cricket and badminton added to the overall enjoyment of the event.



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Skill Upgradation Workshop on “Computer H/W and Networking Components”

The purpose of this Skill Upgradation Workshop for Non-Teaching Technical staff is to encourage and support them to actively pursue technical skill development for performing their role in the institute and prepare them for change in technology and curriculum. Skill upgradation is necessary for the benefit of institutions as well as their personal growth. Pillai HOC College of Engineering and Technology, Department of Computer Engineering organized the workshop on “Computer H/W and Networking Components” for Non Teaching Technical staff on the following dates 3rd & 10th June, 2023. Various topics in computer Hardware and Networking Components were unfolded by the speaker during the workshop.

Date	3rd & 10th June, 2023
Platform	Lab D-313
Resource Person	Ms. Snehal Patil
Coordinator	Mr. Rahul Kapse
Department	Computer Engineering

The following are some of the topics discussed in the session by the speaker:

Contents:

- Introduction to Computer Hardware Components and their working
- Networking Components



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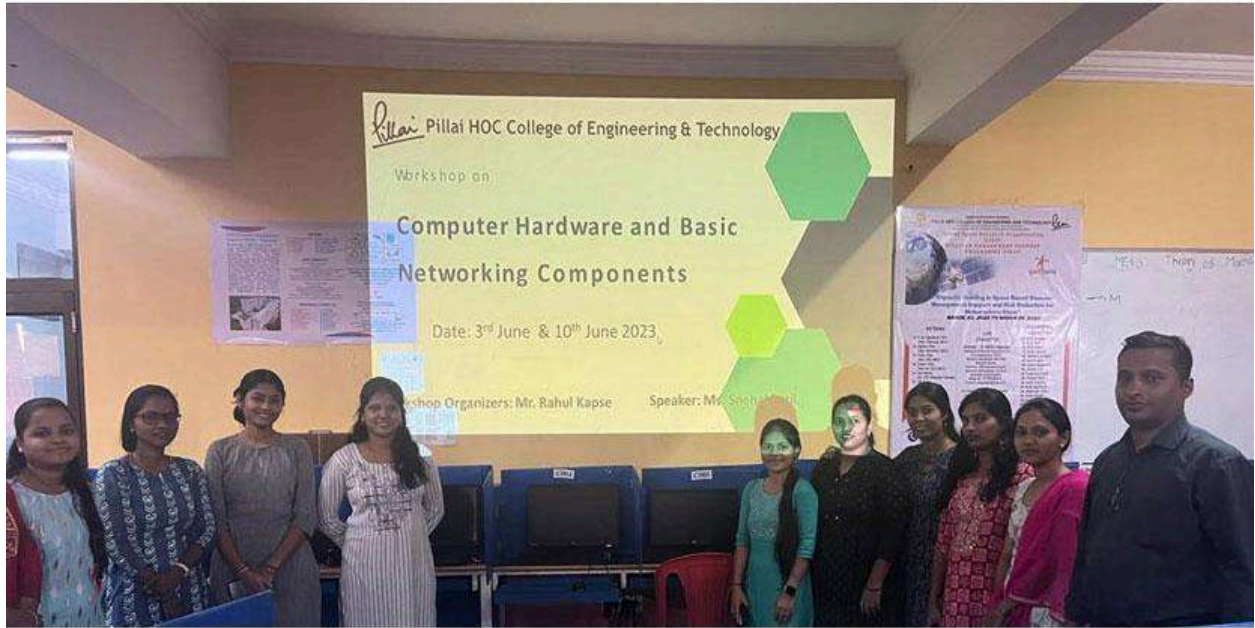


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Event Outcome:

The overall goal of this workshop was to introduce participants to the Computer Hardware and Networking components. Additionally, the workshop gave insight into different computer hardware components for non teaching Technical staff.

Event Feedback:

The workshop was attended by the non teaching technical staff. We received a good response from them and also they gave very good feedback. All the concepts were explained clearly and understandably. At the end of the workshop, Prof. Rahul Kapse (Faculty Coordinator) thanked HoDs, Faculty members, Management and participants for their active support for making the programme successful.

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One Week Faculty Development Program on Digital Circuits and Microprocessors

Date	28 th November to 2 nd December 2022
Resource Person	Mr. Hitesh Sahu and Mr. K. Akhilesh Rao Wadhvani Electronics Laboratory (WEL), Department of Electrical Engineering, IIT Bombay
Venue	ECS Labs
Faculty Coordinator	Dr. Mansi Subhedar

Department of Electronics & Computer Science, Pillai HOC College of Engineering and Technology (PHCET), Rasayani organized a “One Week Faculty Development Program on Digital Circuits and Microprocessors” on 28th November to 2nd December 2022 sponsored by Wadhvani Electronics Laboratory (WEL), Department of Electrical Engineering, IIT Bombay. The Department has collaborated with this agency for a Pilot project on Skill development.

Resource persons for this FDP were Mr. Hitesh Sahu and Mr. K. Akhilesh Rao from Wadhvani Electronics Laboratory (WEL), Department of Electrical Engineering, IIT Bombay. The FDP addressed the various aspects of Advances in Digital Circuits and Microprocessors. This FDP was aimed for department faculty. A total of 6 faculty completed the hands-on training in this programme.

Total 10 training boards were received from Wadhvani Electronics Laboratory (WEL), Department of Electrical Engineering, IIT Bombay. The course material such as handout/supporting documents, videos are also provided from resource persons via the LMS.

These trained faculty will be involved in training upcoming batches under this pilot project.



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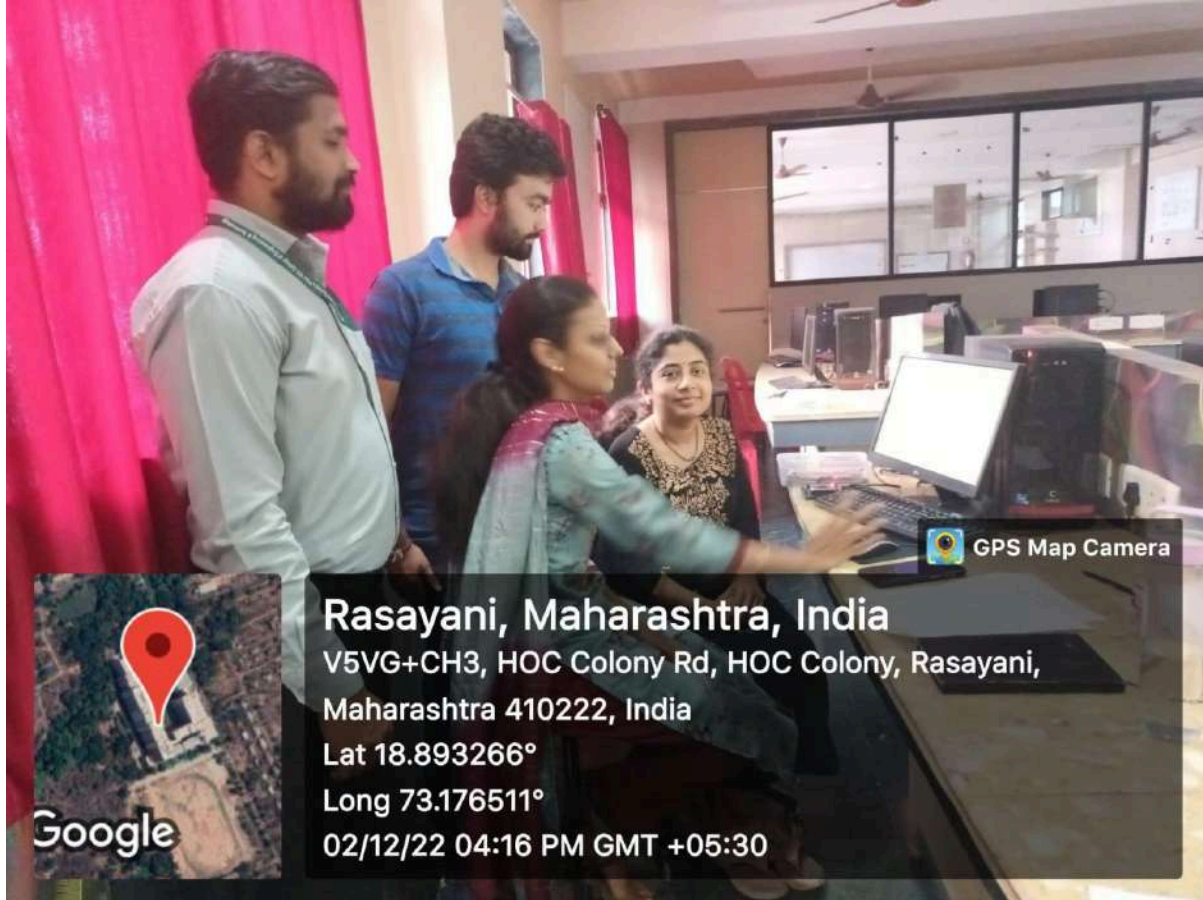
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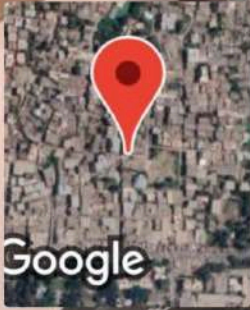
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Two Days Hands on Workshop on "Design and Make your own PCB"

Date	22 nd and 23 rd September 2022
Speaker	Mr. Shubham Thakur, (Research Associate, PCB Labs), Certified PCB Analyst & Design Engineer, ESSCI
Venue	Conclave: II and ECS Labs
Faculty Coordinator	Mr. Jayesh Rane

Printed Circuit Boards are an essential part of electronic connections to generate mechanical support. Conductive tracks, pads and other features etched from copper sheets laminated onto a non-conductive substrate to connect capacitors, resistors or active devices which are generally soldered on the Printed Circuit Board.

Department of Electronics & Computer, Pillai HOC College of Engineering and Technology (PHCET), Rasayani in association with IETE Students Forum (ISF) organized a Two Days Hands on Workshop on "Design and Make your own PCB" on 22nd and 23rd September 2022.

Workshop was inaugurated by Dr. J.W. Bakal, Principal with his motivational speech. Later ISF Faculty coordinator briefed about the ISF students Chapter and events conducted under IETE Students forum. Dr. Mansi Suhedar, Head, Department of ECS guided students and participants about the importance of participating in extracurricular activities and also future plans of the department regarding student development programs.

Resource person for this workshop is Mr. Shubham Thakur, Research Associate, PCB Labs, Certified PCB Analyst & Design Engineer, ESSCI. Mr. Shubham Thakur conducted a theory session which includes basics of PCBs, manufacturing and various aspects of designing PCBs. Complete workshop expenses were funded from the ISF fund received from IETE, New Delhi.

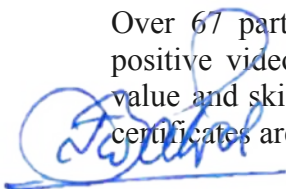
The main objective behind this hands on workshop is to get the participants to learn:

- To be able to design PCB in software
- To have practical knowledge of fabrication of PCB
- To have a capable to make Design and implementation of project by self

Following projects are developed by participants in Workshop:

1. Rain Alarm Circuit
2. Battery Level Indicator
3. Doorbell Circuit
4. 555 Timer IC Tester
5. Christmas LED Light

Over 67 participants benefited from the two days' workshop. Participants have given very positive video feedback and good comments relevant to the projects. Such workshops help in value and skill addition. Also students can increase their scope of job opportunity. Participation certificates are awarded to every participant of the workshop.



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Concluding speech to motivate the students to participate in such workshops was given by the head of department Dr. Mansi Subhedar. Madam appreciated the efforts of all students for their active participation and interest in participating in the workshop and also mentioned about the activities conducted in the college by the department. Madam promised that the department will continue its assistance in conducting these types of workshops and seminars in future too.



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10
MAR

Workshop on "E-mail Writing & Etiquettes"

HUMANITIES SEMINARS & WORKSHOPS, NEWS AND NOTIFICATIONS

RHCEET > Humanities Seminars & Workshops > Workshop on "E-mail Writing & Etiquettes"

For First Year students on 10th March, 2023 in Conclave – I

The objectives of the workshop were to enable the participants to apply the email etiquettes while sending the official letters and to achieve clarity and successful communication.

Prof. Paanam Patil, Applied Sciences and Humanities enlightened the students to a two hour enlightening Session on "Email Writing and Etiquette". Prof. Paanam took the participants through a series of slides and PowerPoint presentations, lectures and discussions to share the precise and methods of email writing, the basic traits of business letters, vocabulary, greeting salutations and conclusions. She demonstrated the techniques to write an effective mail by showcasing the fact that writing emails is not as easy as it may appear and thus one must follow dos and don'ts of email writing.



She also commented on the language that must be excluded in e-mail communications and how emails must be precise, short, brief from the subject line to the greeting and the signing off in an email. It was a highly interactive and participative workshop.

At the end of the session students asked questions to clear their doubts. There were 85 participants in the workshop and feedback was collected from all the participants.

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09 | **Universal Human Values Orientation Program 2023**
 MAR | HUMANITIES EVENTS, ORIENTATION

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. Bakat, Principal PHCET, Head of Department, ASH Faculty as well as students of FE.



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

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Dr. Yashwant S. Patil, Professor and HoD, Shivajirao S. Jondhle College of Engineering and Technology, Asangan, 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 250 students and faculty participated in the session. Positive feedback was received from participants. Overall the programme was a great success with everyone's effect.



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**Department of
Applied Sciences and Humanities**



INSTITUTIONS' INNOVATION COUNCIL
(Ministry of Education, India)

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
Jondhle, College of
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PHCET > Humanities Seminars & Workshops > Seminar on "Corrective Measures and Future planning"

For First Year students on 8th – 9th March, 2023 in Conclave – I & II

As per the academic performances of students in SEM-I, Dr. Vashistha, Professor and Head, ASH Department conducted a Seminar on "Corrective Measures and Future Planning" for all FE students on 8th and 9th March, 2023. He provides some general corrective measures that can help students improve their study habits and performance. However, it's important to keep in mind that each student's situation and needs may vary, and it's best to tailor these measures to their specific circumstances.



Here are some suggestions:

- 1. Set specific, achievable goals:** Encourage students to set specific, achievable goals for themselves. These goals can be short-term or long-term, and should be measurable and realistic. By having clear goals in mind, students can focus their efforts and stay motivated.
- 2. Create a Study Schedule:** Help students create a study schedule that balances their academic workload with their other commitments. This schedule should include time for studying, reviewing, and completing assignments, as well as breaks and leisure activities.
- 3. Improve Time Management:** Teach students time management techniques such as prioritizing tasks, breaking down large projects into smaller tasks and avoiding procrastination. Encourage them to use tools such as calendars, planners, or apps to help them stay on track.
- 4. Develop Effective Study Habits:** Help students develop effective study habits such as active reading, note-taking, and summarizing key concepts. Encourage them to use various resources such as textbooks, online resources, and study groups to enhance their understanding.
- 5. Seek help when needed:** Encourage students to seek help when they are struggling with a particular subject or assignment. This can include talking to teachers, seeking tutoring or academic support services, or working with classmates to clarify concepts.
- 6. Stay Organized:** Teach students to stay organized by keeping track of assignments, deadlines, and important dates. Encourage them to use tools such as folders, binders, or digital tools to keep their materials organized.
- 7. Develop a Positive Attitude:** Help students develop a positive attitude towards learning and academic challenges. Encourage them to focus on their strengths and to view setbacks as opportunities for growth and learning.

By implementing these corrective measures, students can develop good study habits and improve their academic performance.

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08

Workshop on "Essential of Calculus"

MAR

HUMANITIES SEMINARS & WORKSHOPS, NEWS AND NOTIFICATIONS

PHCET > Humanities Seminars & Workshops > Workshop on "Essential of Calculus"

For First Year students on 8th March, 2023 in Conclave – II

The objectives of the workshop were to enable the participants to understand the Essential of calculus.

Prof. Shital Rithe, Applied Sciences and Humanities enlightened the students to a one hour enlightening Session on "Essential of Calculus". Prof. Shital took the participants through a series of slides and PowerPoint presentations of essential applications of calculus and some examples to explain how calculus plays an important role in first year engineering studies. Calculus provides engineers with a powerful toolset for modeling, analysing, and optimizing complex physical systems. Calculus is the most important branch of mathematics that deals with continuous change. The two major concepts that calculus is based on are derivatives and integrals. She discussed the important formulas of differentiation and integration required to solve problems in Engineering Mathematics II.



She also explained the students how calculus is used to solve the problems in engineering related to area, volume and mass. For example, engineers use calculus to calculate area under a curve, which is important for finding the total volume of a shape. It was a highly interactive and participative workshop.

At the end of the session students questioned to clear their doubts. There were 80 participants in the



Shital Rithe
Google

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PHCET > Humanities Seminars & Workshops > Seminar on "Green Chemistry"

For First Year students on 10th March, 2023 in Conclave - I

The objectives of the seminar were to enable the participants to understand the concept of "Green Energy". Dr. Avinash Gatade, Applied Sciences and Humanities enlightened the students to a one-hour enlightening session on "Green Energy"

Green Chemistry is an approach to designing chemical products and processes that aim to minimize or eliminate the use and generation of hazardous substances. It is a sustainable approach to chemistry that considers the environmental impact of chemical products and processes at every stage, from raw materials to disposal.



The principles of Green Chemistry include the use of renewable feedstocks, the design of safer chemicals and processes, the reduction or elimination of hazardous waste, and the minimization of energy use. By adopting these principles, chemists can create products and processes that are not only more sustainable but also more economically viable.

Overall, Green Chemistry is a crucial aspect of sustainable development, and its adoption by the chemical industry is essential for creating a more sustainable and equitable world.



Avinash Gatade

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PHCET > Humanities Seminars & Workshops > Session on "Personal Growth through Reflective Practices"

For First Year students on 8th March, 2023 in Conclave - I

Prof. Suma Lalit, from Applied Sciences and Humanities, introduced students to the reflective practices for personal and professional growth. The one hour session enable the students to imbibe and self-examine one's own action. It helped students to introspect their attitude, emotional intelligence and decisions after the event have occurred in order to gain a deeper understanding of the potential for future improvements. This method of professional development is especially crucial for workplace and it enhances ability to understand customers' emotions and intentions.



Prof. Suma further highlighted the Reflective practice technique that incorporated deeper understanding of the method of looking back to the events and breaking them down to the smallest details in order to gain a better understanding and, therefore, experience. She explained how change of habits that comes with the adoption of reflective practice gives a person a chance to improve other aspects of his or her life.

The session was informative and interactive with series of example reflected from real life events. There were total 85 participants attended the session. Feedback was collected at the end of the session.



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PHCET > Humanities Seminars & Workshops > Seminar on "Science of Happiness and Well-being"

For First Year students on 8th March, 2023 in Conclave - I & II

As per current environmental issues, climate change and wellbeing of the student's Principal Sir Dr. J. W. Bakal and Dr. Vashistha, Professor and Head, ASH department conducted a Seminar on "**Science of happiness and wellbeing**" for all FE students on 8th March, 2023. The science of happiness and well-being is a multidisciplinary field that aims to understand the factors that contribute to human happiness and well-being, and to develop interventions that can promote them. There is growing interest in this field, as increasing evidence suggests that happiness and well-being are not only important for individual health and happiness, but also for social and economic well-being.



Research in this field draws on a range of disciplines, including psychology, neuroscience, sociology, and economics. Some of the key findings from this research include:

1. Happiness is not just about material wealth or success. Research suggests that factors such as social relationships, purpose and meaning, and positive emotions are important predictors of happiness.
2. Happiness is not a fixed trait. While genetics and life circumstances can influence happiness levels, research suggests that happiness can be cultivated through intentional practices such as gratitude, kindness, and mindfulness.
3. Well-being is a multidimensional construct. While happiness is an important component of well-being, it is not the only one. Other components of well-being include physical health, social connectedness, and a sense of purpose and meaning.
4. Interventions can promote happiness and well-being. There are a range of interventions that have been shown to promote happiness and well-being, including mindfulness meditation, positive psychology interventions, and social support programs.

Overall, the science of happiness and well-being is an exciting and rapidly evolving field, with important implications for individuals, communities, and society as a whole.

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GPS Map Camera

Raigad, Maharashtra, India

V5VG+FGH, HOC Colony, Raigad, Maharashtra 410207, India

Lat 18.893905°

Long 73.176646°

08/03/23 10:38 AM GMT +05:30

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PHCET > Humanities Seminars & Workshops > Session on "To Know the Basic of Maths"

For First Year students on 8th March, 2023 in Conclave - I

The objectives of the workshop were to identify how conic sections are formed and student will able to sketch these graphs on a rectangular coordinate plane.

Prof. Vijaya Shelke, Applied Sciences and Humanities conducted a one-hour session on "To Know The Basic of Maths". Prof. Vijaya took the students through lecture and demonstration method to share the different sections of cone like, a straight line and a pair of intersecting lines as a degenerate case of conic section, standard equation of a Circle, Parabola, Ellipse, Hyperbola and their simple properties.



She also discussed on the procedure for tracing curves in Cartesian and Polar coordinates. It was a highly interactive workshop.

At the end of the session students asked questioned to clear their doubts. There were 80 students in the workshop and feedback was collected from all the participants.



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09

Universal Human Values Orientation Program 2023

MAR

HUMANITIES EVENTS, ORIENTATION

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.

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Dr. Yashwant S. Patil, Professor and HoD, Shivajirao S. Jondhle 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 250 students and faculty participated in the session. Positive feedback was received from participants. Overall the programme was a great success with everyone's effect.

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**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
Jondhle College of
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Orientation Program for the Course Advanced Construction Technology

Question Paper Pattern

Weightage of each module in end semester examination will be proportional to number of respective lecture hours mentioned in the curriculum.

- 1. Question paper will comprise of total 50X questions, Each carrying 20 marks.
- 2. Question 1 will be **Compulsory** and should cover maximum contents of the curriculum
- 3. Remaining questions will be mixed in nature (for example if Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3)
- 4. Only **Four** questions need to be solved.

Internal Assessment

Consisting Two Compulsory Class Tests

- First test based on approximately **40%** of contents
- Second test based on remaining contents (approximately 40% but excluding contents covered in Test I).

Module VI
Rehabilitation and Strengthening techniques
 (Lecture 07-Hours)

Reference Books

- Seismic retrofitting, strengthening of beams,
- strengthening of steel structures, bridge, building,
- strengthening of the slab, Masonry structures, monuments and historical
- strengthening of a masonry wall, Protection methods of structures, water leakage in structures;
- Mud jacking, jacking for foundation, masonry repair;
- Micro piling and underpinning for strengthening of floor and shaft profile, grouting material.
- Subgrade waterproofing, soil stabilization technique, underground railways.

Construction Technology, Practical foundation engineering hand book, Robert Wade Brown



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 **Module VI** 
Rehabilitation and Strengthening Techniques
(Lecture 07 Hours)

- Seismic retrofitting, strengthening of beams,
- strengthening of columns,
- strengthening of the slab,
- strengthening of a masonry wall; Protection methods of structures,
- Mud jacking and grouting for foundation,
- Micro piling and underpinning for strengthening floor and shallow profile, Subgrade waterproofing, Soil Stabilization techniques
- Repair of steel structures, bridge, building, towers etc., monuments and historical structures.
- Prevention of water leakage in structures; Underwater repair;
- Durability of repairing material. Maintenance of underground railways.

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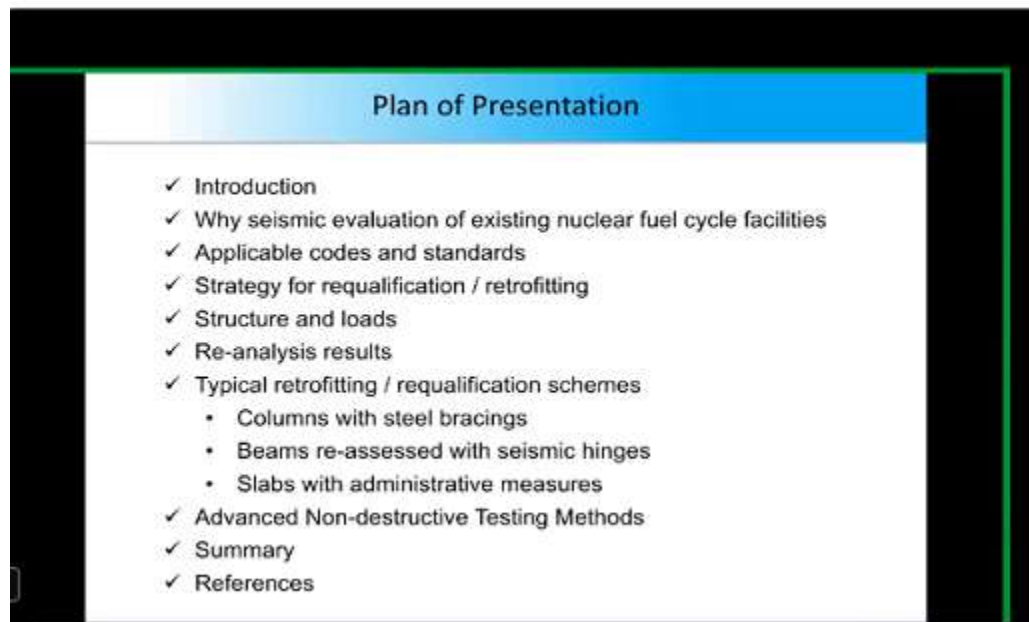
Webinar Series on Health Assessment of Existing Nuclear Fuel Cycle Facilities and Climate Change- A Concern for Mumbai

Department: Civil Engineering

Date: 20th August, 2022

Coordinator: Ms. Apurva Deshpande

Department of Civil Engineering, Pillai HOC College of Engineering and Technology organizes webinar on "Health Assessment of Existing Nuclear Fuel Cycle Facilities" on 20th August, 2022. An eminent speaker for the program was Dr. Dauji Saha, Scientific officer, Bhabha Atomic Research Centre, Mumbai. The session started with opening notes and welcoming of guests by the program coordinator. Resource person explained the about the necessity of the health assessment of existing structures, various tests to be conducted on the structure to check its health. Resource person also what are the different programs is organised by BARC, Mumbai. He also shared information regarding the selection criteria in BARC. Question answer session was held towards the end of the session. 38 participants were registered for the orientation. The session was conducted by eminent speaker through ZOOM platform. Participants provided their feedback through the link shared with them. Certificate was awarded to all participants who attended the sessions and gave feedback.



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Plan of Presentation

- ✓ Introduction
- ✓ Why seismic evaluation of existing nuclear fuel cycle facilities
- ✓ Applicable codes and standards
- ✓ Strategy for requalification / retrofitting
- ✓ Structure and loads
- ✓ Re-analysis results
- ✓ Typical retrofitting / requalification schemes
 - Columns with steel bracings
 - Beams re-assessed with seismic hinges
 - Slabs with administrative measures
- ✓ Advanced Non-destructive Testing Methods
- ✓ Summary
- ✓ References



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Celebration of World Green Building Week

PHCET > Celebration > World Green Building Week 2022

As a part of World Green Building Week, Indian Green Building Council (IGBC) Students Chapter, Pillai HOC College of Engineering and Technology, celebrated 'World Green Building Week 2022' from 12th to 16th September, 2022.

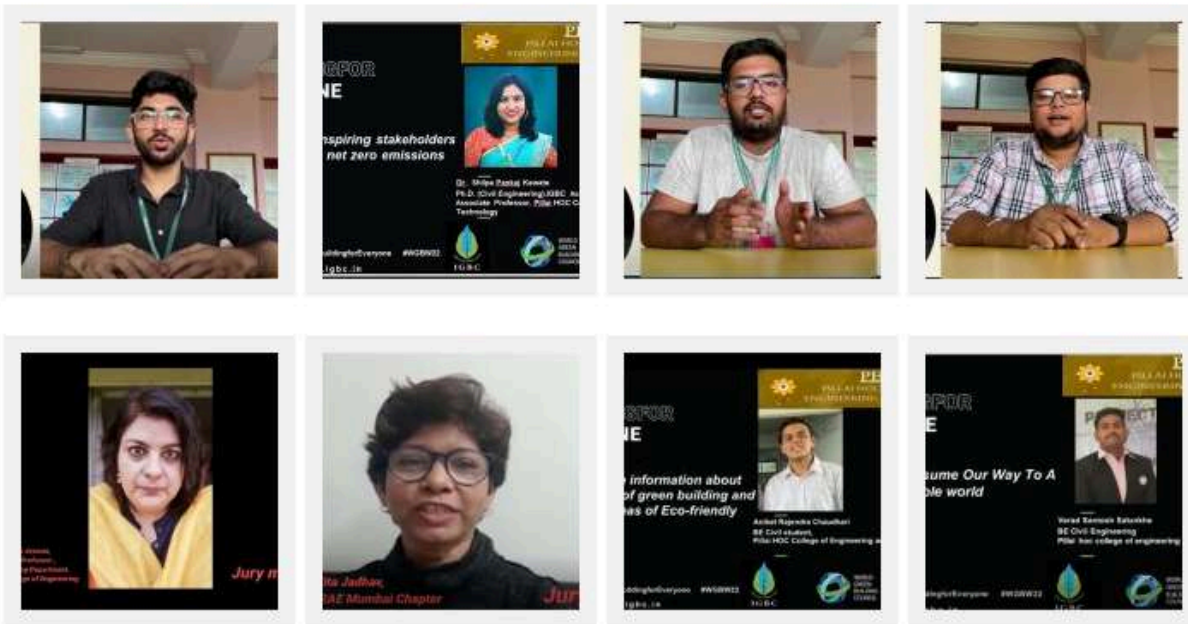
Date 12th to 16th September, 2022
Department Civil Engineering
Co-ordinator Dr. Shilpa Pankaj Kewate

Following activities/competitions were conducted through on line mode.

1. Green Sketching Campaign & meme Doodling
2. One Minute Video Campaign on Sustainable Environment
3. Essay Writing on sustainable strategies towards the environment.

Details of Jury members:

1. Ms. Nivedita Jadhav, President for ASHRAE Mumbai Chapter
2. Dr. Hansa Jeswan, Associate Professor, Civil Engineering Department, Sardar Patel College of Engineering



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Winners for Green Sketching Campaign & Meme Doodling

College Category

1. Aniket Chaudhari (PHCET)
2. Darshan Sunil Badekar (PHCET) and Aniket kumar Singh (PHCET)
3. Mitali Pramod Gharat (PHCET) and Manali Rajendra thule (PHCET)

School Category

1. Advik Jha (Podar International school, Nerul)
2. Samridh Jha ((Podar International School, Nerul)
3. Anvika Meshram (Ryan's St. Joseph High School, Khanda Colony)

Winners for Essay Writing

College Category

1. Pritam Patil (PHCET) and Megha Dinkar More (PHCET)
2. Prasad Rajesh Thorve (PHCET)
3. Gaurav Shyam Bahadur Jaiswal (PHCET)

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Winners for Essay Writing

College Category

1. Pritam Patil (PHCET) and Megha Dinkar More (PHCET)
2. Prasad Rajesh Thorve (PHCET)
3. Gaurav Shyam Bahadur Jaiswal (PHCET)

School Category

1. Sanidhya Gajanan Mahajan (MES HOCL school)

Winners for One Minute Video Campaign on Sustainable Environment

College Category

1. Shruti Sheth (Sardar Patel College Of Engineering, Mumbai) and Ayush Arbind Singh (PHCET)
2. Prasad Thorve (PHCET)
3. Suyash Thakur (PHCET)

School Category

1. Aanshika Kewate (Apeejay School Kharghar)
2. Atharv Jha (Podar International School Nerul)



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New Generation of Concrete Technology

16

SEP

Expert Lecture on "New Generation of Concrete Technology"

CIVIL EXPERT LECTURE, NEWS AND NOTIFICATIONS

PHCET > Civil Expert Lecture > Expert Lecture on "New Generation of Concrete Technology"

Department: Civil Engineering

Coordinator(s): Dr. G.R. Patil, Mr. Prashant Singh

Date: 16th September, 2022

Department of Civil Engineering, Pillai HOC College of Engineering and Technology organized an Expert Lecture on "New Generation of Concrete Technologies" on 16th September 2022. The eminent speaker for the program was Dr. Hemant B. Dhonde, PhD Director (C-Probe Technologies) & Principal Counselors (.edu) Adjunct Professor (Govt. College of Engg., Pune). The session started with opening notes and welcoming of guests by the student coordinators. Resource persons explained about the Materials, Mechanisms (Nano-To- Meso) & Structural performance. He also gave the knowledge about current trends in Concrete Technologies such as ultra-high strength concrete and use of maturity meter in while constructing using concrete. The Program was held in Conclave-I, in which 43 students of third year Civil Engineering department attended the seminar (Expert lecture).

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PILLAI HOC COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING

ASTR
Association of Structural Rehabilitation (Reg.No 1214)

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ISRS

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiatives)

Expert Lecture On
New Generation of Concrete Technology

Topics to be Covered:
(i) Concrete Maturity and its Measurement
(ii) Ultra High-performance Concrete
(iii) Multi-Functional Concrete

Date:-16th Sept 2022 Time:-11.00 AM Venue:- Conclave I

Speaker
Dr. Hemant B. Dhonde
Ph.D. (Structural Engg., United States of America),
Founder\Director: C-Probe Technologies LLP, Pune

Faculty Coordinator
Mr. Prashant R. Singh
Assistant Professor, Civil

Convener
Dr. G. R. Patil
Associate Professor, Civil

HoD, Civil
Mr. Raju N. Narwade
PHCET, Rasayani

Principal
Dr. J. W. Bakal
PHCET, Rasayani

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Felicitation of Dr. Hemant B. Dhonde by HoD of Civil Engineering Mr. Raju N. Narwade

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STTP on Challenges and Opportunities in Sustainable Energy Conservation, Utilization and Its Business Strategy

Industry sponsored & ISTE approved Six Days Short Term Training Program on "Challenges and Opportunities in Sustainable Energy Conservation, Utilization and Its Business Strategy" organized by Department of Civil, Electrical & Mechanical Engineering

Event Date: 19th to 24th September, 2022

Mode of Conduct: Offline

Theme: Interaction with an Industry and academia expert

Organizers: Dr. G. V. Patil, Mr. Raju Narwade and Ms. Pranita Chavan

No. of Students Participated: 169

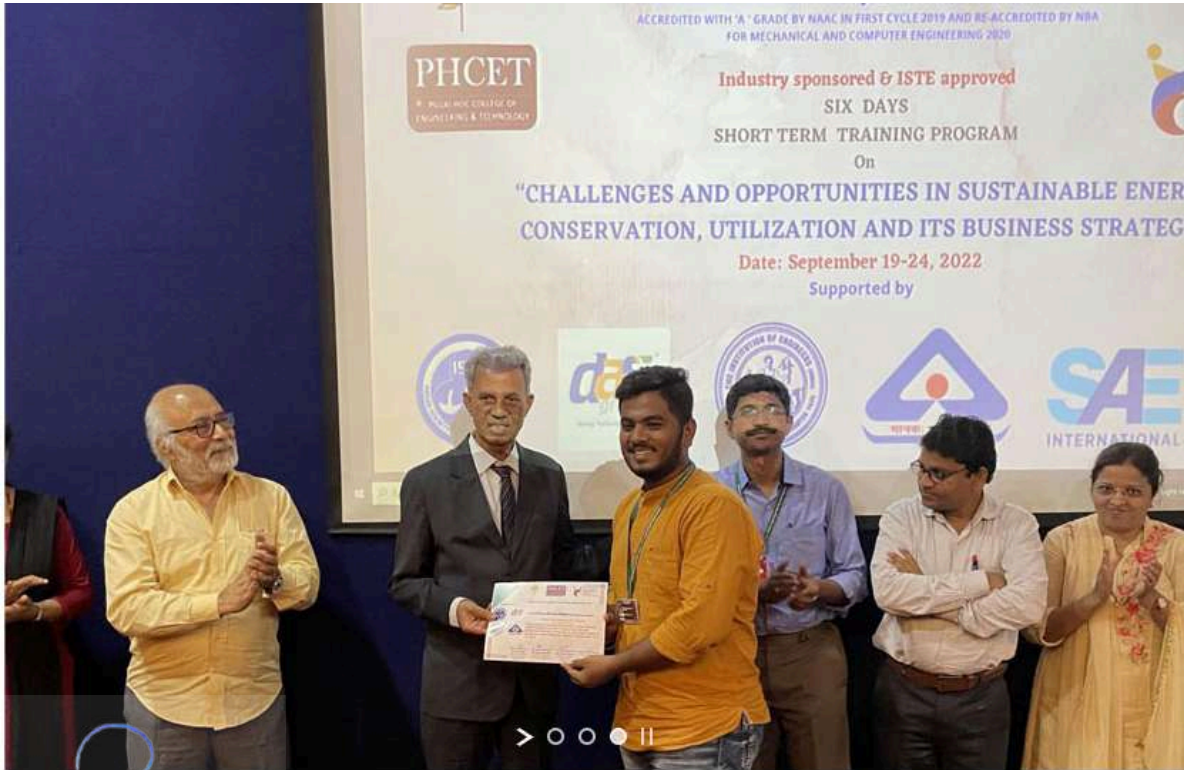
No. of Faculty Participated: 38



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T. J. S. Prasad

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Free ISRO Sponsored Capacity Building in Space Based Disaster Management Support and Risk Reduction for Maharashtra State



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Mahatma Education Society

Mahatma Education Society (MES) completed its 50th year in the field of education in 2020. It is a pioneer in establishing and managing institutions in various streams of education. Mahatma Education Society was established in the year 1970 by a group of teachers to spread education for all. Society today has 48 institutions from pre-primary to post-graduation to research with over 30,000 students and over 2,500 teachers. The society manages several schools imparting instruction in S.S.C., C.B.S.E., I.C.S.S.E. and IB programmes, Junior Colleges, Degree Colleges, Engineering Colleges, Architecture College, Management schools, Polytechnics and Teacher education programmes at different locations in Mumbai, Navi Mumbai and Raigad (Raigad District). Most of the colleges are re-accredited 'A' Grade by NAAC and also accredited by NBA & other Government bodies.

Pillai HOC College of Engineering and Technology (PHCET), Rasayani

Mahatma Education Society's Pillai HOC College of Engineering & Technology (PHCET), Rasayani was established in 2003 and is affiliated with the University of Mumbai and recognized by AICTE & DTE. In less than 20 years of span, PHCET is recognized as one of the premier institutions delivering professional courses in Engineering & Technology at the Undergraduate as well as Post Graduate levels. PHCET is accredited with an 'A' Grade by NAAC and also accredited by NBA (Mechanical & Computer Engineering) & other Government bodies.

Currently, PHCET offers the following courses-

- Civil Engineering (UG & PG)
- Computer Engineering (UG & PG)
- Electronics & Computer Science (UG)
- Electrical Engineering (UG)
- Information Technology (UG)
- Mechanical Engineering (UG & PG)
- Civil & Computer Engineering (PHD)

Programme Objectives

1. To provide comprehensive knowledge and sensitize the learner's potential in Space Based Disaster Management (SBDM) - Mitigation, Preparedness, Response, and Recovery.
2. To provide information on various space-based data sources and government initiatives.
3. To understand the science behind all disasters and from it move on space based disasters such as floods, cyclones, droughts, earthquakes, sea level rise, etc. which occur quite frequently in Maharashtra.
4. To create public awareness and strengthen the framework of policies and institutional mechanisms for community mobilization and participation in Space Based Disaster Management.
5. To identify various techniques, tools, datasets, and methodology using case studies and equip learners with advanced space-based technology.

Programme Outcomes

- Understand the concept of Disaster Risk Assessment, Reduction and Management at global scenario.
- Describe and utilize spatial data, geographic information systems (GIS) and remote sensing.
- Utilize existing sources of historical dataset.
- Utilize risk information in emergency preparedness planning.
- Visualize hazard and risk information.

Who Can Apply?

Government officials, educators, university stakeholders working in management.

Important Information

- Last date of Registration -
- Date of Confirmation -
- Mode of conduct -
- No of Seats -
- Registration Fees -



Pillai HOC College of Engineering and Technology, Rasayani, Maharashtra, India Capacity Building in Space-Based Disaster Management Support and Risk Reduction for Maharashtra State - Basic Course Basic Course: 20th March 2023 to 25th March 2023

Date	Day	Theme	09:00 - 10:00	10:00 - 11:30	11:30 - 02:00	02:00 - 02:30	02:30 - 03:30	03:30 - 04:15	
20-03-2023	Monday	SBDM Terms and Definitions	Overview	A 90 degree Introduction - Space Based Disaster Management Support in India Using Sharda			Municipal Corporation of Greater Mumbai (MGCM) Disaster Management Framework in Maharashtra State		
			Speaker						
			Designation	NESC, ISRO			Chief Officer, MGCM, Maharashtra DM Cell		
21-03-2023	Tuesday	Introduction to SBDM	Introduction to SBDM	Focusing on ISRO BHUVAN Satellite Data Sets			Focusing on Maharashtra meteorological Data		
			Speaker	LECTURE SERIES ON SBDM			HANDS ON PRACTICALS ON SBDM		
			Designation	Introduction of Physics of Remote Sensing and GIS in SBDM			Hands On BHUVAN and QGIS - for Beginners (Shape Files, Vector & Raster Images etc.)		
22-03-2023	Wednesday	Landslides	SBDM for Landslides with Case studies from focusing on Maharashtra	Dr. Karthik Nagarajan			Dr. Karthik Nagarajan		
			Speaker	IIRS Outreach Coordinator			IIRS Outreach Coordinator		
			Designation	Computer Lab 1			Computer Lab 1		
23-03-2023	Thursday	Floods / Droughts	SBDM for Landslides with Case studies from focusing on Maharashtra	Dr. Amita Gupta			Hands On QGIS and Bhuvan - Case studies of Landslides in Maharashtra		
			Speaker	Prof. Civil Engg. PHCET			Dr. Karthik Nagarajan		
			Designation	Convener 2			IIRS Outreach Coordinator		
24-03-2023	Friday	Cyclones	SBDM for Floods/Droughts with Case studies from focusing on Maharashtra	Dr. Vinay Nikam			Hands On QGIS and Bhuvan - Case studies of Floods/droughts in Maharashtra		
			Speaker	Prof. Civil Engg. PHCET			Dr. Vinay Nikam		
			Designation	Convener 2			Prof. Civil Engg. PHCET		
25-03-2023	Saturday	Earthquakes	SBDM for Cyclones with Case studies from focusing on Maharashtra	Mr. Raja Narwade			Hands On QGIS and Bhuvan - Case studies of Cyclones in Maharashtra		
			Speaker	HOD Civil Engg. PHCET			Mr. Raja Narwade		
			Designation	Smart Class Room 2			HOD Civil Engg. PHCET		
			SBDM for Maharashtra - Earthquake	Dr. Amita Gupta			Hands On QGIS - Earthquakes		
				Prof. Civil Engg. PHCET			Group Discussions and Valedictory		
				Smart Class Room 2			Dr. A.W. Bakul		
							Prof. Civil Engg. PHCET		
							Computer Lab 1		
							Auditorium		

(Signature)

PRINCIPAL

Mahatma Education Society's
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Rasayani, Tal. Khelapur
Dist. Raigad, Pin-410 207

Frequently Asked Questions (FAQs)

FREE ISRO Sponsored "Capacity Building in Space Based Disaster Management Support and Risk Reduction for Maharashtra State "(Basic Course) from 20th March - 25th March 2023

Important Details :

Last Date of Registration: 1st March 2023

Date of Confirmation: 6th March 2023

Registration Fees: NIL

Mode of Conduct: Offline

No of Seats : 50

Venue : Pillai HOC College of Engineering and Technology , Pillai HOCL Educational Campus, HOC Colony Khalapur, HOC Colony Rd, Taluka, Rasayani, Maharashtra 410207

Website: www.phcet.com

ISRO Disaster Management Support (DMS) - Capacity Building (CB) Program

Under ISRO's Disaster Management Support (DMS) Programme has been actively supporting the Central and State governments by providing operational services during pre-disaster, during-disaster and post-disaster time-frames, including experimental forecasts, using space systems. Capacity Building (CB) in space technology for disaster management under ISRO DMS Programme has been identified as a key element to motivate the participants to develop innovative methods, tools, data products and services in the field of disaster management using space technology. DMS-CB program is one such unique effort funded by ISRO initiated to fulfill the CB requirements in the country.

Objectives:

1. To provide comprehensive knowledge and sensitize the learner's potential in Space Based Disaster Management (SBDM) - Preparedness, Mitigation, Response, and Recovery.
2. To provide information on various data sources and government initiatives.
3. To understand the science behind all disasters and focus more on major disasters such as floods, cyclones, droughts, etc. which occur quite frequently in Maharashtra State.
4. To create community awareness and strengthen the framework of policies and institutional mechanisms for community mobilization and participation in Space Based Disaster Management (SBDM).



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