Mahatma Education Society's



Pillai HOC College of Engineering and Technology



Dist. Raigad Via Panvel, Rasayani, Tal. Khalapur 410207, MH, India

Institution's Innovation Council

Report for Academic Year 2020-21







A.

• Vision of IIC established at the Institute

To be a fountainhead of innovative ideas to meet the mission of entrepreneurship and startups and accelerate the efforts of skilling and upskilling for employment generation

• Mission of IIC established at the Institute

To develop research support and cultivate an active Start-up ecosystem in PHCET resulting in innovation and entrepreneurship driven employment and economic growth.

- Journey of IIC established at the Institute: PHCET has established Institution's Innovation Council (IIC) as per the guidelines of 'MoE's Innovation Cell (MIC)' in the academic year 2020-21. The initiative was to create a vibrant local innovation ecosystem, start-up supporting mechanism, establish function ecosystem for scouting ideas and preincubation of ideas and to develop better cognitive ability for technology students. PHCET, IIC is actively involved in organizing and conducting various seminars, workshops, Idea competitions, Hackathon for school childrens etc. for its students and faculties.
- Diversified representation in the IIC established at the institute from industry, Interdisciplinary & Departments/ Units etc.

PHCET has established IIC comprising members from Industry and Interdisciplinary departments. Each member contributes to fulfil Vision and Mission of IIC established at the institute conducting expert webinars, Workshops, Field visits, Add-on programs for students and faculty of PHCET.

B. Brief mention of key functionaries at the IIC Institute

• President: Dr. R.C. Prasad

• Vice President: Dr. Mansi Subhedar

Convenor: Dr. G.V.Patil

• Coordinators etc.: Refer Below Table





C. Portfolio/graphical/Tabular representation of Resource strength (human capital and Physical capital) of the IIC institution

No.	Member		
140.	Member	(Teaching/ Non-	assigned in IIC
		teaching / External	
4	D TIM (1	Expert)	TT 1 (d) 2 (d) 2
1	Dr T.J. Mathew	Teaching	Head of the institution
2	Dr R.C. Prasad	Teaching	President
3	Dr G.V. Patil	Teaching	Convener
4	Dr Ashok Kanthe	Teaching	Vice President and start up Activity Coordinator
5	Ms. Munawira Kotyad	Teaching	Entrepreneur
6	Dr Mansi Subhedar	Teaching	IPR Activity Coordinator
7	Mr. Raju Narwade	Teaching	Internship Activity Coordinator
8	Dr M.D. Nadar	Teaching	Innovation Activity Coordinator
9	Dr J.E.Nalawade	Teaching	Member, NISP Convener
10	Mr. Karthik Nagarajan	Teaching	Social Media Coordinator
11	Dr Nareshkumar	External	Industry Expert
	Harale		
12	Mr. Viswas	External	Industry Expert
10	Kshirsagar,	.	
13	Mr. Vikaykumar Shivpuje	External	Industry Expert
14	Mr. M. V. Rajashekar	External	Industry Expert
15	Mr. Nandakishore Nemade	External	Industry Expert
16	Mr. Rupesh Kale	External	Industry Expert
17	Harsh Shah	Student	Start-up Coordinator
18	Simran Surve	Student	Member
19	Harsh patil	Student	IPR Coordinator
20	Vedant Sawant	Student	Internship Coordinator
21	Anjali Sharma	Student	Internship Coordinator
22	Joseph Kassamkulam Thomas	Student	Innovation Activity Coordinator
23	R S Shinjo	Student	Social Media Coordinator

• Total No. of IIC Members: 23

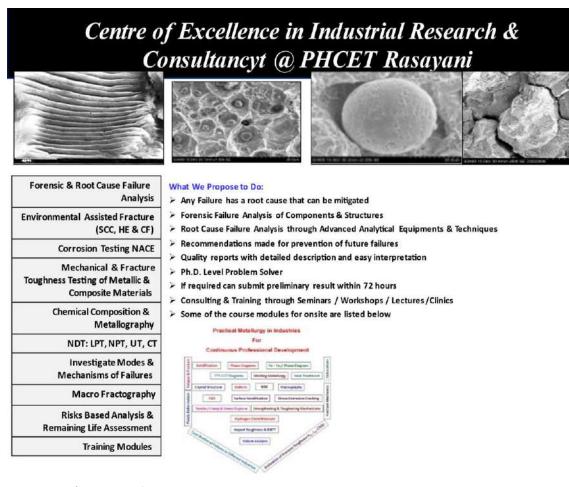
• Total No. of IAs: 6





- Total No. of faculty Mentors From Portal: 10
- Pre-Incubation Units, If any: Yes
- Incubation Units, If any: Yes
- IP Facilitation Unit, If any: Yes
- D. Highlight Facilities, Infrastructure of Pre-Incubation & Incubation kind and Student bodies/clubs engaged in promotion of Innovation and Entrepreneurship in the campus.

PHCET has dedicated Pre-Incubation & Incubation cell with following facilities:



- Software Lab
 Software lab consists of 18 no of PC's, where students can research and
 develop projects, several no of software are used. Solid Works, Java net
 beans, Android SDK, Matlab, Kill, Arduino, etc. Also many software's
 are provided as per the project need.
- 3D Printing Facility in Software Lab (Felix 3.0 3d printer)





 Facility used for rapid prototyping and fast processing Ultimaker+ Extended Pro

3D Printing, also known as additive manufacturing, refers to various processes that synthesize a 3 dimensional object. In 3D printing, successive layers of material are formed under computer control to create an object. A 3D printer is a type of industrial robot.

Component Library

This is the place where number of resources is incubated to process on. This facility is made with the intention of making maximum resources available to work on. Students can borrow these resources to learn and work on. Library contains resources like Microcontrollers, sensors, actuators, power supply, tools and equipment and many more.

• Workshop Facility

Research lab has dedicated workshop facility or prototyping and fabrication. Major useful tools and equipment are available with the proper guidance to use.

• Laser Cutting and Assembly Project
Laser cutting is a technology that uses a laser to cut materials, and is
typically used for industrial manufacturing applications. This facility is
provided for rapid prototype Designing, Assembly and
manufacturing, Testing of pilot design and project based learning.

E. Highlight Achievements (Narrative/Graphical/tabular representation)

• Number and Different types of I&E and IPR activities Conducted:

Quarter I

SN.	Activity	Date	Social Media
1	Intellectual property protection and management in Academia	26 th April	<u>Link</u>
2	Career Opportunities in NDT and General Guidance	17 th February	<u>Link</u>





Quarter II

SN.	Activity	Date	Social Media
1	Emerging Technologies in Civil and Infrastructure Engineering for Sustainable Development	12th to 17th July	Link
2	Create Jobs, Generate Value, Create Wealth	1st August	<u>Link</u>
3	Diverse Applications of AI in Core Engineering	5 th September	<u>Link</u>
3	Pathway to higher education abroad	01st July	<u>Link</u>

Quarter III

SN.	Activity	Date	Social Media
1	Workshop on Intellectual Property Rights (IPRs) and IP management for start up	26 th July 2021	-
2	One Week AICTE approved STTP 1 on Composites : Fracture Toughness, NDE & Failure Analysis		<u>Link</u>
3	One Week AICTE approved STTP 2 on Composites : Fracture Toughness, NDE & Failure Analysis	18 th to 23 rd January	<u>Link</u>
4	One Week AICTE approved STTP 3 on Composites : Fracture Toughness, NDE & Failure Analysis	15 th to 20 th March	<u>Link</u>





Quarter IV

SN.	Activity	Date	Social Media
1	World Environment Day	05 th June	Link
2	Recycling Metals, Plastics & Scrap Tyres : Circular Economy Road map to Build Green India"	21st May	-
3	ONLINE ONE DAY NATIONAL WORKSHOP On "Recycling Metals, Plastics & Scrap Tyres : Circular Economy Road map to Build a Green India"	21st June	<u>Link</u>
4	Poster Presentation Competition for Students of Polytechnic " From waste to Wealth : Circular Economy Roadmap"	21st June	-
5	ONLINE STATE LEVEL H A C K A T H O N 2 0 2 1 ON Solution for Recycling Metals, Plastics & Tyres for Circular Economy	21st June	<u>Link</u>
6	Importance of Internship and Career Guidance for Engineers	18 th June	-

- No. of student's & faculty ideas generated: 7
- No. of student's & faculty Innovation/prototypes developed: In Process
- No. of IPs generated, published and granted: In Process
- No. of Student & Faculty Start-ups/Ventures established : **In Process**
- Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus: **1 Lakh**
- Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR: **1.73 Lakhs**
- No. of Technology Transfer and Commercialisation happened: 00
- F. Highlight few best IIC Faculty/Student members and their achievements/ Rewarded for the innovations at different forum
 - a. **Dr. R. C. Prasad:** Dr. R.C. Prasad currently a Professor of Department of Mechanical Engineering and Chairman IIC at PHCET Rasayani is a





former HAG Professor from IIT Bombay. He is a distinguished alumnus of BIT Sindri and completed MTech from IIT Madras and PhD from IISc Bangalore. He has more than 45 years' experience in Teaching, Research & Consultancy and had been an Independent Director at M/s Sanghvi Forging at Vadodara for more than 5 years. Currently he is a Margdarshak of AICTE. He has conducted more than 25 Conferences / Workshops and delivered more than 30 Keynote lectures besides editing a book on "Composites: Science & Technology. He has guided more than 50 MTech & PhD Dissertations and published papers with 727 citations & h-index 14 as given below:



- b. **Dr. J. E. Nalavade:** He has attended the NISP training program in January 2021. Currently NISP coordinator at PHCET Rasayani and formulated NISP policy in June 2021. He has successfully completed Innovation Ambassador training (Foundation level) conducted by MoE's Innovation Cell and AICTE during the period from 30th June-30th July 2021. Two NISP awareness programs were organized by me for Faculty and students.
- c. **Dr. M.D.Nadar:** Graduated, post graduated and doctorate in the field of Mechanical Engineering and specialised in the area of industrial Engineering. I had 4 years Industry experience and I have worked in the area of teaching since 1991 and research work since 2010. I have guided more than 50+ under graduate students and guided more than 25+ Post graduate students final year projects and I have been selected for best research work by Mumbai University, I have coordinated many faculty development program institute level, national level sponsored by remote centre by IIT-Mumbai, AICTE Atal Academy FDP Program.





- G. Highlight selected best Innovations & images with mention of inventor/innovation name: **Nil**
- H. Highlight selected start-ups established by students/faculties with mention of founder/cofounder name: **Nil**
- I. List if any break through Innovations / Technology Developed at the institute (2-3 technology with 2-3 lines about technology and innovation: **Nil**
- J. Participation of IIC-institute in various programs of Central and Stage Govt. Highlighting specially for the schemes or programs
 - ARIIA Participation
 - NISP Adoption status Trained Faculty, Policy Formulation, Policy Implementation
 - Smart India Hackathon etc.
- K. Detail of Social Media & Connections of IIC institute

Website: https://www.facebook.com/pillaihoccollege Website: https://www.instagram.com/pillaihoccollege







- L. Testimonials from IIC members and external about IIC institute and IIC of MoE's Innovation Cell:
 - **Dr. Mansi Subhedar:** I am serving as IPR coordinator for IIC, PHCET. PHCET has constituted IIC to offer support to the students and faculty to nurture innovation and startup ecosystem. IIC team at PHCET has also formulated PHCET NISP in accordance with framework provided by MoE innovation cell. PHCET IIC is promoting student driven innovations by providing a platform to nurture students ideas and mentor them to take those ideas transformed into product design. Being a IPR coordinator, I would like to mention that involved many students are actively involved in prototype design at various stages. It is essential to make them aware about copyrights, trademarks and patents filing procedures and technology commercialisation guidelines. IIC has conducted several webinars on IPR, Entrepreneurship and innovation theme and have planned symposiums and design contest to promote, mentor and nurture a research, innovation and entrepreneurial potential amongst students and faculty. Implementation of NISP at various at stages will certainly help internal and external stakeholders to drive and ensure development at all fronts.
 - 2. Mr. Nandakishore Nemade: I am CEO, Nikhil comforts, Mulund Mumbai and Industry expert IIC, PHCET. PHCET has vibrant innovation and startup ecosystem. PHCET IIC is promoting student driven innovations by providing a platform to nurture students ideas and mentor them to take those ideas transformed into product design.

M. Few Images of Various Programs conducted by PHCET, IIC:

IIC, PHCET organize following various programs to nurture student's ideas and mentor them to take those ideas transformed into product design.

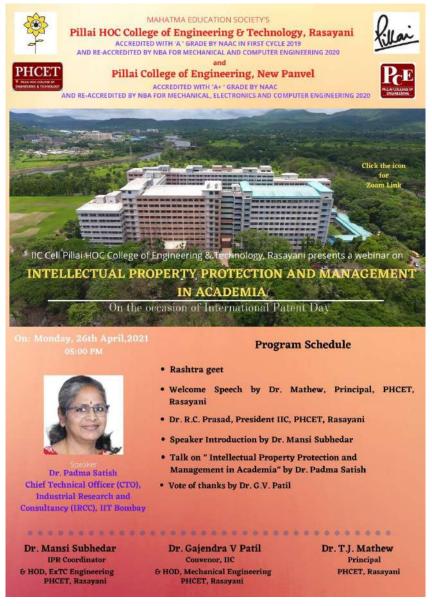
IIC PHCET organized a webinar on "Intellectual property protection and management in Academia" on 26th April 2020. The invited speaker was Dr. Padmasatish who works as the Chief Technical Officer (CTO) at the Industrial Research and Consultancy Centre (IRCC), Indian Institute of Technology Bombay. Her work comprises multifarious functions relating to management and techno-administration of all R&D related activities undertaken in the Institute, with a main focus on Intellectual Property (IP) management / technology transfer. These include management of technical matters in R&D administration, IPR management, IP policy activities and new initiatives, startup related, contracts management, liaison with industry, researchers, funding agencies and governmental bodies, and mentorship, amongst other facilitation processes towards promotion of R&D at IIT Bombay.





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

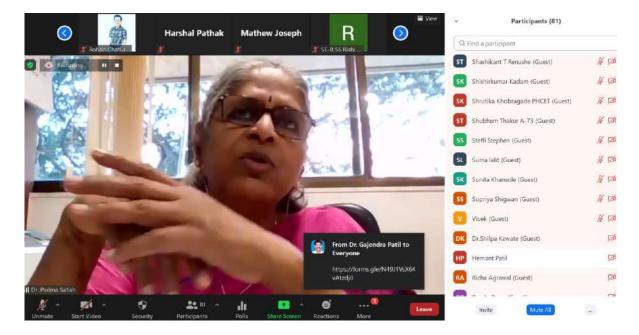
The session ended with Question Answer session and vote of thanks. Feedback link was sent to the participants. Positive feedback was received from participants and students suggested to organise more sessions like the same in the future.



Event Flyer







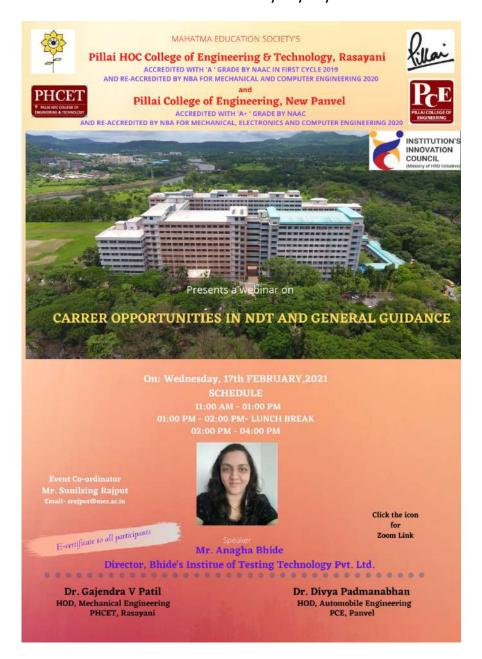
Session Screenshot

IIC PHCET organized a webinar on "I Career Opportunities in NDT and General Guidance" on 17th February 2021. Th invited speaker was Ms. Anagha Bhide who is Director at Bhide Institute of Testing Technology Pvt. Ltd., which is located at Navi Mumbai. She has delivered several talks on Non-destructive testing & its importance in the manufacturing & testing areas. She also conducts various courses on NDT Level I & Level II.

Total 228 students and faculty members participated the session. The Session started with the welcome of speaker by Mr. Sunilsing Rajput, & then commenced the session by speaker by explaining the Non-destructive testing, & different types of non-destructive testing used by industries for the betterment of productivity. She explained all the fundamentals about NDT. Session was planned around 4 hours where she explained all the perspectives of NDT.



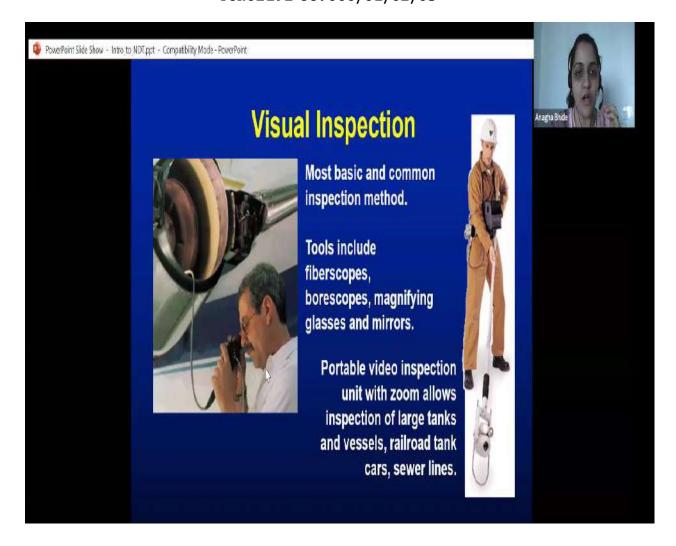




Event Flyer







Session Screenshot





Registration Details

- Get yourself registered using the link given below.
- https://forms.gle/9mdoatBTQVbGei5s8
- No registration fees.

Guidelines

- All registered participants will receive session details
- Login 10 minutes before session start.
 Last date for registration is 11th July 2021.
 The STTP will be conducted in online mode with 2
 - sessions per day.
 Session 1: 11 am to 1.30pm.
 Session 2: 2 pm to 4.30pm.
- After registration please join the Whatsapp Group: https://chat.whatsapp.com/IrHP9h177hxIEVNf7Iomz6

Certificates

- · E certificate will be provided to those who satisfy
- attendance criteria (Minimum 75 percent).
 Attendance will be monitored.
 Participants should fill and submit the daily feedback



Patrons

- Dr. K.M. Vasudevan Pillai, Hon'ble Chairman, MES.
- Dr. Daphne Pillai, Hon'ble Secretary, MES
- Dr. Priam Pillai, Hon'ble COO, MES
- Dr. Franav Pillai, Hon'ble Dy, CEO, MES. Dr. Lata Menon, Deputy CEO, Pillai HOC Educational
- Campus, Rasayani. Prof. Munawira Pillai, Head, Innovation Research

Convenor

Mr. Raiu Narwade Head of Civil Engineering Department Contact no: 8108202122 marwade@mes.ac.in

Co-ordinators

Ms. Apurva Deshpande Assistant Professor Contact No: 9422181868 apurva@mes.ac.in

Assistant Professor ntact No : 8779338833 ashwinip@mes.ac.in

Organizing Committee

- Dr. Amit Dasgupta
- Dr. Shilpa Kewate Ms. Manisha Jamgade Ms. Madhulika Sinha Mr. Harshal Pathak
- Ms. Steffi Stephen Ms. Gayatri Deshpande
- Mr. Karthik Nagarajan
- Mr. Anwar Sayed Ms. Sonali Baviskar Mr. Manish Mane
- Ms. Smitha J S

DEPARTMENT OF CIVIL ENGINEERING

ORGANISES

ONE WEEK (6 DAYS) SHORT TERM TRAINING PROGRAMME

EMERGING TECHNOLOGIES IN CIVIL AND INFRASTRUCTURE ENGINEERING FOR SUSTAINABLE DEVELOPMENT.

IN ASSOCIATION WITH











12TH JULY, 2021 - 17 TH JULY, 2021



MAHATMA EDUCATION SOCIETY'S PILLAI HOC COLLEGE OF ENGINEERING & TECHNOLOGY.

RASAYANI, TAL: KHALAPUR DIST. RAIGAD PHONE NO: (02192)252005 / 250066 www.phcet.ac.

About Mahatma Education Society

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 & 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. programmes, Junior Colleges, Degree Colleges, Engineering Colleges, Management Institutions, Polytechnics and Teacher education programmes at different locations in Mumbai, Navi Mumbai and Rasayani (Raigad District). Most of the colleges are re - accredited 'A' Grade by NAAC and also accredited by NBA & other Government bodies.

About 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 a short span, PHCET is recognized as one of the premier institutions delivering professional courses in Engineering & Technology at Under Graduate as well as at Post Graduate level. Currently PHCET offers following courses-

Automobile Engineering (UG).

Civil Engineering (UG & PG)

Computer Engineering (UG & PG). Electronics & Telecommunication (UG & PG).

Electrical Engineering (UG).

Information Technology (UG & PG) Mechanical Engineering (UG & PG)

Ph.D. in Civil Engineering &

Ph D in Computer Engineering. The Institute is Accredited with an A grade by NAAC in the first cycle, 2019 and Reaccredited by NBA for computer and Mechanical Engineering in 2020.PHCET is Winner of the first position for workplace safety awards 2019 and also winner of Indian Merchant Chamber's Ramakrishna Bajaj National Quality Performance Excellence Trophy - 2019.

About Civil Engineering Department

The Department of Civil Engineering was established in 2010 and within a short period of time department grew from UG to PhD. The Department of Civil Engineering offers an excellent ambience for students to learn and acquire the necessary skills that are much sought after by the industry.

Department has well equipped labs and signed MoUs with major construction companies. These companies offer industry project and internship to our students. They also conduct placement drive for students. College has an ISRO Outreach Centre which is under civil engineering department. Under this ISRO Outreach Centre department runs the various certification courses for students and faculty members. More than 9000 and faculty members have successfully completed various courses.

Vision of the Department

To impart quality education to civil engineering graduates by keeping pace with rapidly changing technologies and to create professionals through teaching-learning and research with capabilities of accepting global challenges who shall maintain integrity to serve society with respect for the environment.

Mission of the Department

To produce competent and quality conscious civil engineers with civic sense to strive for sustainable solutions and endeavor future engineers for excellence in all aspects to meet global standards and educating them for innovative thinking with relevance to professional career and entrepreneurship with industrial and social

About STTP

The world today is witnessing sea change in infrastructural development. Innovative technologies are bringing in sustainable development around the globe. As a developing country, India is going through enormous infrastructural advancement in housing, roads, railways, airports and city planning. To match the pace of development, various innovative methods are being used in construction industry as well as in allied disciplines. This Short Term Training Programme aims to enlighten about the recent trends and the challenges faced in the diversified fields of Civil Engineering. We aim to deliberate on and discuss the various recent applications and innovative methods applied in the field of Civil Engineering. Technical lectures will be provided Resource Persons from Academic Institutions and Industries

Program Objectives

- To get acquainted with the knowledge of sustainable infrastructural development.
- To learn about the latest material, software's, tools, and techniques available for sustainable development
- To enrich the theory and technical skills to keep pace with changing scenarios.

Who should attend?

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

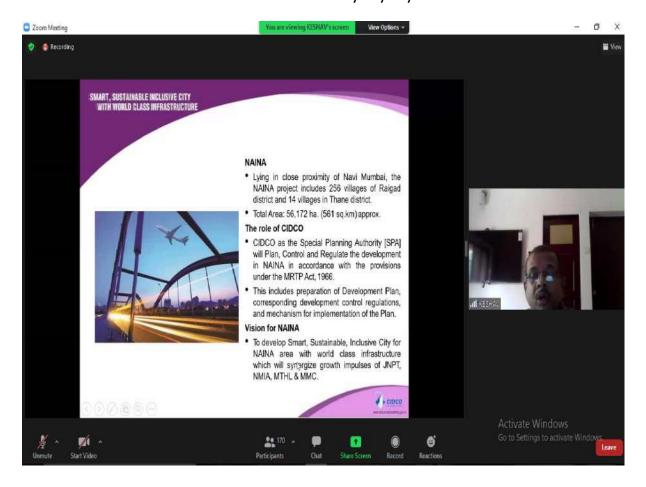




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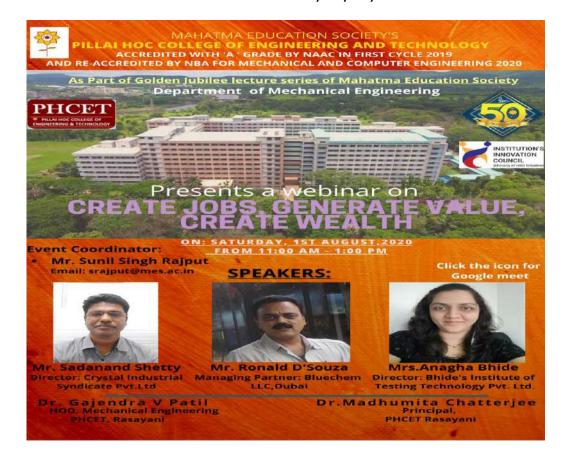


Session Screenshot

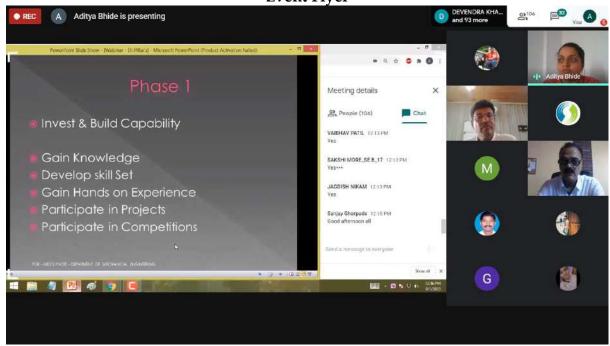
IIC PHCET organized a webinar on "Create Jobs, Generate Value, Create Wealth" on 01st August 2020. The webinar started with welcome of all speakers and Principal, Dr. Madhumita Chatterjee. Then initially talk was delivered by Mr. Sadanand Shetty who is Director of Crystal Industrial Syndicate Pvt. Ltd. He gave insights all about entrepreneurship. He shared his all experience with students. Then in second part Mr. Ronald D'Souza gave talk about entrepreneurship. He joined the session from abroad(Dubai). Then at the end, talk was delivered by Ms. Anagha Bhide who is director of Bhide Institute of Testing Technology. Then session ended with vote of thanks by Head of Department Dr. G.V. Patil. More than 200 students participated in the event.







Event Flyer



Session Screenshot





IIC PHCET organized a webinar on "Diverse Applications of AI in Core engineering" on 5th August 2020. The invited speaker was Mr. Makarand Apte, who is working as a Solidworks AI Development Director was invited as a resource person for the webinar. He is currently working in Dassault Systemes- la fondation. Mr. Makarand is has done B.Tech from IIT Bombay in Metallurgical Engineering & Material Science. He worked on various areas on Computational Geometry, Geometric Modelling, Advanced Surfacing, CAD data inter-operability, Mesh Compression-Decompression, Wall Thickness Analysis, Swept Volume Generation and Shrink Wrapping, AI based 3D design assistant tool for productivity boosting. He has also filed 3 patents in area of Artificial Intelligence (AI). He has also organised events like idea Crowdsourcing, Hackathons, Tech Talks.



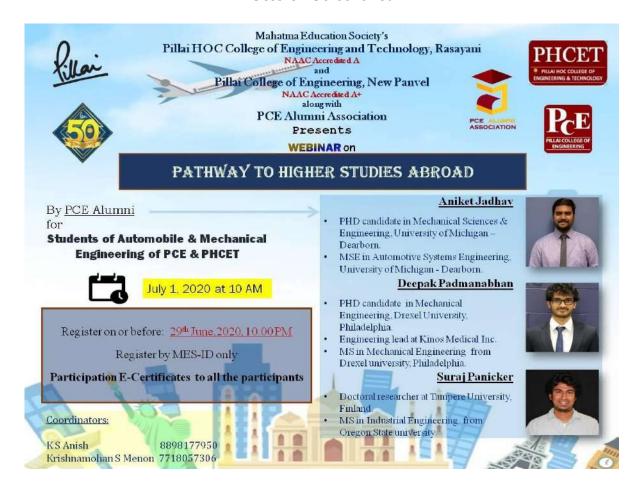
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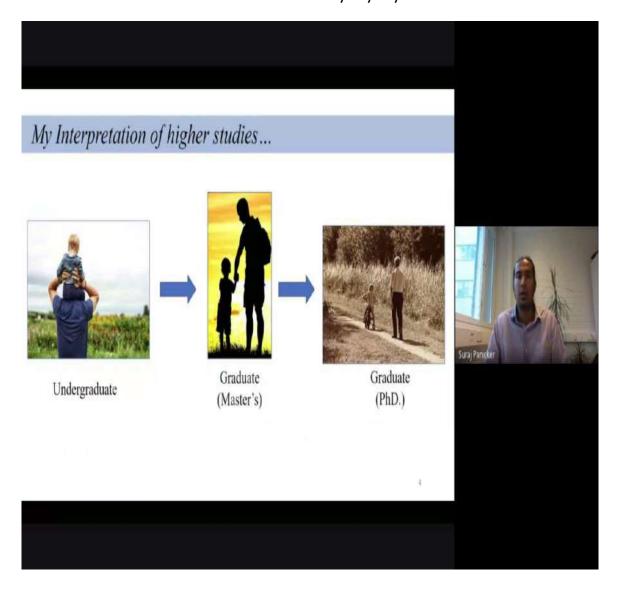
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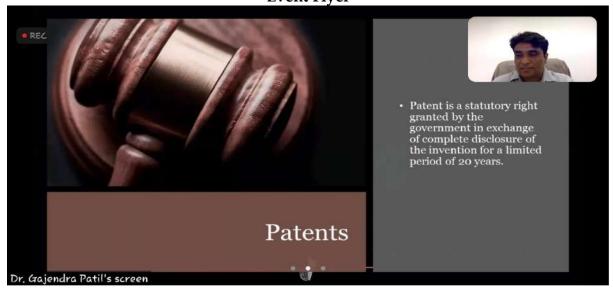
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ABOUT THE STTP

Light weight, corrosion and damage resistant, tough composites are considered a major break-through that has revolutionized their use for many high-performance parts in automotive, Aerospace, Defense and Marine industries. India has rapidly advanced to face the challenges and opportunities that lie in the area of composites applications. This has dramatically impacted the GNP & employment opportunities in our country. New country. inployment opportunities in our country. New courses Institutes. Fracture toughness, NDE and Damage mechanisms have become an active area of research. Extensive research carried out in academic and research institutes has brought India at the threshold of a new era.

Professional manufactures are increasingly looking for defect free, durable & defect tolerant composites defect free, durable & defect tolerant composities components using Fracture Mechanics. ASTM has formulated standards for determination of Translaminar & interlaminar fracture toughness of PMCs for durability and damage tolerance assessment under, tensile fatigue and impact damage conditions.

impact camage conditions. Composites have poor flaw resolution compared to microscopically homogeneous conventional metals due to noise attenuation. The use of NDT for composites is thus highly challenging due to its anisotropy and complex failure modes. Fracture mechanics approach integrated with NDE and Failure analysis have become game changers

in industries. With these challenges in mind and keeping in view the worldwide interest, these three separate one week Certificate ACTE approved STIPs have been designed at PHCET, Rasayani. This course plans to take stock of the current state of the art in Polymer & Rubber composite technology. The objective is to provide basic understanding of synthesis, fracture toughness evaluation using fracture mechanics, defect detection using NDT & understand modes and mechanisms of fracture for analysing failure of composite structures. Training in this emerging area will facilitate research, bridge the gap between academia & industries and enhance placement opportunities for students.

LIST OF RESOURCE PERSONS FOR STTP - 1 **DURING 17 - 22 NOV 2020**

WITH TITLE OF THEIR PRESENTATION 1.Dr. R. C. Prasad, Professor, PHCET RASAYANI: An overview of the STD on Composites: 1 recture toughness, NDL & Failure Analysis STD on Composites: 1 recture Toughness, NDL & Failure Analysis Composites: 1 recture Toughness, NDL & Failure Analysis Composites Composites (Composites Composites Comp in Polymer Technology, Nanotechnology
and Fracture of Composites
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Macrae: Thermography and Computed
Tomography Applications in Composites
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S.Shit, Kashineth Dreven, S.Shit, Arden Dreven, Arthur Dreven, S.Shit, Arden Dreven, Archard Dreven, Archard Dreven, Archard Dreven, Archard Dreven, Arc 16.0F. S. K. Panigrahl, Professor, DIAT, Pure : Frocture Mechanics
6. Computational Methods for Damage Assessment in Composite for Detrose Applications
DIAB, Sweden : Fabrication of Sandwich
Composites and 15 Applications
18. Mr. Mangesh V. Josh, CEO, Sanrachana Structural
Strengthening Pvt. Ltd., Than et: Reforteling Corrosion Demaged
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EXPERIENCE in Yrs:

2. Dr. D. Stall And Bandyopodylay, SABC, Bangalore : Applications
of Composites in Oil and Clase
2. Dr. D. Stall, IK. Shinde, Professor, VITI, Matunga, Mumbai
Effect of Electrospun Nanofibers and Carbon Nanotubes on the
Strengthening Streng Definition of d'accident an attenuation souccure repeated was symmetric parts.

Account"

Limited : Design, Fabrication & Characterisation of medical textiles & their composites for Protection against COVIDI

25.Dr. Ravi Babu, CECRI, Tamilinadu : 3D printing of Polymers & Polymer Composites

Polymer Composites

26.Dr. R. J. Gurupresaed, Professor, ITTB : Analysis of intertaining carding of Composite learning and Composite learning to Co 28.Dr. P. J. Guruprisand, Prossauci, and cracking of composite learnings. 27.Dr. Poola Manoj Katkar, D.K.T.E.S. Textile & Engineeing IFSC Code: SYNB0005214 Institute, Rajwada, Ichalkeranji : fextile materials in manufacturing

REGISTRATION FORM

THREE SEPERATE ONE WEEK AICTE APPROVED CERTIFICATE

SHORT TERM TRAINING PROGRAMS

COMPOSITES: FRACTURE TOUHNESS, NDE & FAILURE ANALYSIS

FIRST STTP: DURING 17 - 22 NOVEMBER 2020 SECOND STTP: DURING 18 - 23 JANUARY 2021 THIRD STTP: DURING 15 - 020MARCH 2021

Composites

28.Mr. Praveer Verma, DMSRDE, Kanpur : Failure Analysis of Institution PAN : AAATM5636H
polymer matrix composites

Event Flyer





IIC PHCET & Department of Mechanical Engineering, PHCET conducted Short Term Training Program (STTP) under AQIS 2019-20 during the financial year 2020-21 vide Ref.No.:34-66/442/FDC/STTP/Policy-1/2019-20 dated 10 August 2020 on "Composites: Fracture Toughness, NDE & Failure Analysis "

The first STTP was conducted during November 17-22, 2020. The highlight of the STTP has been the participation of leading professional societies in the country like Society for Automotive Engineering, Western Region, Institution of Engineers, Maharashtra Region, ASM International India Chapter, Society for Failure Analysis, Mumbai Chapter, Indian Society for Remote Sensing, Mumbai Chapter, Materials Recycling Association of India and the Indian Rubber Manufacturers Research Association, Mumbai. Their involvement immensely benefited participants and allowed them to interact with industries related to the subject matter of the STTPs. STTP covered processing of Polymers, Polymer Blends & Composites, and their mechanical and Non-destructive characterization to ensure quality assured industrial products. This was followed by case studies of failures in different industrial sectors and ways and means to prevent such failures. The STTP also covered advanced manufacturing processes like additive manufacturing and 3D printing. The lectures were delivered by the industry experts, faculty from NITs and IITs as well as leading foreign universities. The applications of Polymers, composites and NDE for medical applications were also covered by eminent speakers.



Advances in Polymer & Nano -Techno



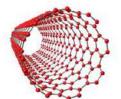
Prepared for:

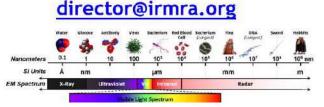
AQIP -STTP - AICTE Sponsored program

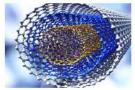
Presented by

Dr. K. Rajkumar
Director,
Indian Rubber Mfrs Research
Assn. (IRMRA)
DPIIT, Min of Com & Ind.,
Govt. of India









Session Screenshot





Sponsorship The Pillal HOC College of Engineering & Technology invites faculty of AICTE approved institutes and participants from industries & R&D organizations for three separate AICTE sponsored one week certificate Short Term Training Programs on "Composites: Fracture Toughness, NDE and Failure Analysia" as per deatils given below. STIP 2: "Composites: Fracture Toughness, NDE and Failure Analysia" during Manuery 18 - 23, 2021. STIP 3: "Composites: Fracture Toughness, NDE and Failure Analysis" during March 15 - 29, 2021. On successful completion, participants will be awarded AICTE & PHCET approved certificates.

Souvenir

Three separate souvenirs will be brought out on this occasion, it will contain the abstracts of the respected STIPs. The tariff for advertisements in the souvenir is as below.

Back Cover : Rs. 10, 000/- & Inside Cover Pages Rs. 7,500/-, Full Page Rs. 5,000/- & Haiff Page Rs. 3,000/-

Exhibition & Presentation by Exhibitors

Concurrent with the workshop an online Exhibition is planned for
the display of products & processes of the company that will
provide best platform for growth of business in large size Indian
market related to:

- market related to:

 Composite raw materials (resins, reinforcements, etc.)
 Equipment related to manufacturing process
 Inspection and NOT equipment
 Display of high-performance products in MMCs, CMCs & PMCs
 Or Aerospace, Automotive, Marine, Construction, Transportatione,
 Defense, Sport, Letsure, Agriculture, etc.

Exhibition Tariff
The exhibition tariff is Rs. 3.5001-with free registration & certificate for one delegate, one-page advertisement in the Souvenir of respected STIP and five minutes slot for product presentation.

respected STIP and the minutes slot for product presentation.

REGISTRATION FEE

(a) Participants from AICTE recognized colleges: No registration fee will be charged from faculty members. (Restricted to 40 participants only in each of the three separate STIP's (b)Participants from other organizations (Limited to 4 participants only): Participants from Industries and R&D Organizations have to pay Rs. 2,000: per candidate per STIP as registration fee. This amount is to be sent along with the application form. Registration fee includes an electronic copy of the souverin.

Link for Registration: https://forms.giet/TSFHPpinC4G9G89rr8
Last Date of registration for STIP2 is 03 January 2021

MODE OF PAYMENT: All payments should be made through RTGS recossed Demand Draft in favour of "PICCT R&D Account"

A/C No.: \$2142200111189

Bank: Syndicta Bank, Khaire Patalganga
IPSC Code: SYNB0005214

Institution PAN: AAATM5536H

Patrons

Dr. K. M. Vasudevan Pillal, Chairman & CEO, MES

Mr. T. S. Kathayat, Sr. President, Weispun Corp. Ltd.
Dr. N. Eswara Plasad, Director, DMSNEC, Kampur

Dr. K. Rajkumar, Director, IRMRA, Mumbai

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Dr. Priam Pillal, COO, MES

Mr. Franav Pillal, DCEO, MES

Dr. S. Joshi, Principal, PCE Panvel

Dr. H. M. Raje, Chairman, Institute of Engineers, Mah. State Centre

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Dr. Mahawar, Joseph, Principal PICET

Dr. H. M. Raje, Chairman, Institute of Engineers, Mah. State Centre

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Dr. Sashi Kanta Panigrahi, DAT, Pune

Prof. Raghu Prakash, IIT Madras

Mr. Samresh Changdar, GEImida Pvt. Ltd. Mumbai

Mr. Authi Bakare, Add. Director, CRIM. AC, Nashik

Dr. Ishitlaq Khan, Tata Technologies Pune

Mr. Sandieer Regs, Secretary ASM & COM Mahindra & Mahindra

Dr. G. S. Prabhu, M.D. Fine Finish Organics Pvt. Ltd., Taloja, Mumbai

Mr. Sudnika Yaldya, Manager, SAE WESTERN INDIA GROUP

Local Organizing Committee

Ir Sudmya, Manager, SAE Wes I-EM INDIA GROU

Local Organizing Committee

Dr. Divya Padmanabhan, PCE Panvel

Dr. T. Tambushkar, PCE Panvel

Dr. Wawgit Panda, PCE Panvel

Dr. M. D. Nadar, PHCET Rasayani

Mr. Sunas Uthale, PHCET Rasayani

Mr. Saurabh Sirsikar, PHCET Rasayani

Mr. Saurabh Sirsikar, PHCET Rasayani

Mr. Karthik Nagarajan, PHCET Rasayani

Dr. Ajit Bahadakkar, Secretary, SFA Mumbai Chapter

Dr. Ajii Bhandakkar, Secretary, SrA Mumbai Chapter
Steering/Program monitoring committee ACCTE STIP:
Dr. Mathew T. Joseph, Principal : Chairman
Dr. R. C. Prasad, Coordinator & Member Secretary
Dr. G. V. Patil, Head Mech. Engy. Dept. : Member
Dr. S. Pawar, Head Automobile Engy. Dept. : Member
Dr. Friam Pillel, COO of MES. : Member as a Subject Expert
Address for Correspondence:
Dr. Dr. Bross B. D. Br

Prof. R.C. Prasad

Coordinator & Vice Chairman SFA Mumbai Chapter
Department of Mechanical Engineering, PHGET, Rasayar
Mobile - 09869236912 Fax - 2748 3208

Email :- respos@gmail.com / rcprasad@mes.ac.in
Web - ynww.sfa.mes.ac.in

PILLAI HOC COLLEGE OF **ENGINEERING AND TECHNOLOGY**

PRESENTS ONLINE

THREE - ONE WEEK AICTE APPROVED CERTIFICATE

SHORT TERM TRAINING PROGRAMS

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

SECOND STTP: DURING JANUARY 18 - 23, 2021 THIRD STTP: DURING MARCH 15-20, 2021

Organised by







Supported by Knowledge Partners















ABOUT THE STIP

Light weight, corrosion and damage resistant, tough composites are considered a major break-through that has revolutionized their use for many high-performance parts in automotive, Aerospace, Defense and Marine industries, india has rapidly advanced to face the challenges and opportunities that lie in the area of composites and applications. This has dramatically impacted the GNP & employment opportunities in our country. New courses related to composites and non-destructive testing of composites have been introduced in Indian Technological Institutes. Fracture toughness, NOE and Damage mechanisms have become an active area of riseserch. Extensive research carried out in academic and research mechanisms have become an active area of research. Extensive research carried out in academic and research institutes has brought India at the threshold of a new era. Professional manufactures are increasingly looking for defect free, durable & defect tolerant composites components using Fracture Mechanics. ASTM has formulated standards for determination of Translaminar A Intertaininer fracture toughness of PMCs for durability and damage tolerance assessment under, tensile fatigue and impact damage conditions. Composites have poor flaw resolution compared to microscopically homogeneous conventional metals due to noise attenuation. The use of NDT for composites is thus highly challenging due to its anisotropy and complex failure modes. Fracture mechanics approach integrated with NDE and Failure analysis have become game changers in industries.

In industries.

With these challenges in mind and keeping in view the worldwide interest, these three separate one week Certificate ACTE approved STTP's have been designed at PMCET, Resayani. This course plans to take stock of the current state of the art in Polymer & Rubber composite technology. The objective is to provide basic understanding of synthesis, fracture loughness evaluation using fracture mechanics, defect detection using NDT & understand modes and mechanisms of fracture for analysing failure of composite structures.

Training in this emerging area will facilitate research, bridge the gap between academia & industries and enhance placement opportunities for students.

LIST OF RESOURCE PERSONS (Tentative) FOR STTP - 2
DURING JANUARY 18 - 23, 2021

- 1. Dr. R. C. Prassad, Professor, PriCET RAS/ANN 2. Dr. Rajkumar Kasilingam Director, IRMRA Mumbai 3. Mr. Shantano C. Prabhune, L&T Mumbai 4. Prof. Shridher Yarligadda, University of Delaware, USA 5. Dr. Prakash D. Trivedi, Gharde Chemicals Mumbal 6. Dr. Biswayii Panda, PCE, Panvel 7. Dr. Virendra Kumar Gupte, Head R&D & Senior VP, Reliance

- 7. Dr. Virendra Kumar Gupta, Head R&D & Senior VP, Reliance Rosearch, Mumbal
 8. Shri, Kanhinath Deodhar, Group Director, ARDE, DRDO, Pune
 9. Prof. Ramesh Tafreja, Tenneco Prof., TDXAS AAM UNIVERSITY, USA
 10. Dr. Debdatta Ratina, Scientist, NMRI, Ambernath
 11. Dr. Direshairoph Thakur, Professor, DIAT, Pune
 12. Mr. Ajit Bhandalkkar, DGM HAL, Nashik
 13. Mr. Rimzath S, DIAB, Sweden
 14. Prof. Shenkar Sastry, Washington University in St. Louis, USA
 15. Dr. C. M. Marjumatha, Chief Scientist, NAL Bangalore
 16. Mr. Shyamsunder, Chairman ISMT
 17. Dr. Raylib Prakashi, ITI Madras
 18. Dr. Ravi Babu, CECRI, Tamilinadu
 19. Dr. Dattaji K, Shinde, Professor, UTI, Matunga, Mumbal
 20. Dr. S. K. Panigrash, Professor, UTI, Matunga, Mumbal
 20. Dr. S. K. Panigrash, Professor, UTI, Matunga, Mumbal
 20. Dr. S. K. Panigrash, Professor, UTI, Matunga, Mumbal
 20. Dr. S. K. Panigrash, Professor, UTI, Matunga, Mumbal
 20. Dr. Autu Bakare, Addi, Director, Celfill AC, Nashik
 6. Mr. Samerseh Changdar, CEI India Pru, Ltd., Pune
 27. Prof. Nagmani Jaya Balis, Dept. of MEMS, ITI Sombay
 28. Mr. Mangesh V, Joshi, CEO, Sanrachan PvL, Ltd., Thane
 29. Dr. G. S. Prabhu, Managing Director, Fine Finish, Taloja
 30. Dr. Sumanda Bandyopadhyay, S&BIG, Bangalore
 31. Dr. Pooje Katkar, D.K.T.E. S, Ichalkaranji
 32. Dr. Dr. Pooje Katkar, D.K.T.E. S, Ichalkaranji
 33. Dr. G. V. Patil, PHCET, Raseyani

REGISTRATION FORM

THREE SEPERATE ONE WEEK AICTE APPROVED CERTIFICATE

SHORT TERM TRAINING PROGRAMS

COMPOSITES: FRACTURE TOUHNESS, NDE & FAILURE ANALYSIS

SECOND STTP: DURING JANUARY 18 - 23 2021 THIRD STTP: DURING MARCH 15 - 20 2021

GENDER : M / F :

ORGANISATION :

MAILING ADDRESS :

TEL: (O) (R):

EMAIL:

QUALIFICATION : EXPERIENCE In Yrs

MODE OF PAYMENT: All payments shou sed Demand Draft in favor of "PHCET R&D

A/C No.: 521422001111189

IFSC Code: SYNB0005214

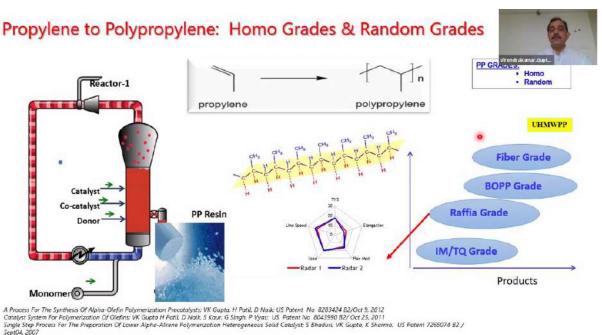
Event Flyer





IIC PHCET & Department of Mechanical Engineering, PHCET conducted Short Term Training Program (STTP) under AQIS 2019-20 during the financial year 2020-21 vide Ref.No.:34-66/442/FDC/STTP/Policy-1/2019-20 dated 10 August 2020 on "Composites: Fracture Toughness, NDE & Failure Analysis"

The second STTP was conducted during January 18-23, 2021. The highlight of the STTP has been the participation of leading professional societies in the country like Society for Automotive Engineering, Western Region, Institution of Engineers, Maharashtra Region, ASM International India Chapter, Society for Failure Analysis, Mumbai Chapter, Indian Society for Remote Sensing, Mumbai Chapter, Materials Recycling Association of India and the Indian Rubber Manufacturers Research Association, Mumbai. Their involvement immensely benefited participants and allowed them to interact with industries related to the subject matter of the STTPs. STTP covered processing of Polymers, Polymer Blends & Composites, and their mechanical and Non-destructive characterization to ensure quality assured industrial products. This was followed by case studies of failures in different industrial sectors and ways and means to prevent such failures. The STTP also covered advanced manufacturing processes like additive manufacturing and 3D printing. The lectures were delivered by the industry experts, faculty from NITs and IITs as well as leading foreign universities. The applications of Polymers, composites and NDE for medical applications were also covered by eminent speakers.



An Olefin Polymerization Titanium Catalyst: S Bhaduri, VK Gupta: US Potent No. US6969747 B2 / Nov29, 2005.

Session Screenshot





Sponsorship The Pilial HOC College of Engineering & Technology invites faculty of AICTE approved institutes and participants from industries & RAD organizations for three separate AICTE sponsored one week certificate Short Term Training Programs on "Composites: Fracture Toughness, NDE and Failure Analysis" as per details given below. **PILLAI HOC COLLEGE OF** Dr. K. M. Vasudevan Pillai, Chairman & CEO, MES Mr. T. S. Kathayat, Sr. President, Welspun Corp. Ltd. Dr. N. Eswara Prasad, Director, DMSRDE, Kanpur Dr. K. Rajkumar, Director, IRMRA, Mumbal **ENGINEERING AND TECHNOLOGY** Dr. N. Eswara Prasad, Director, RahrRA, Mumbal Advisory Committee Dr. Priam Pillal, COO, MES Mr. Franav Pillal, COO, MES Mr. Franav Pillal, COO, MES Dr. S. Joshi, Principal, PCE Parvel Dr. Pragness Shalt, RCE Parvel Dr. Pragness Shalt, RCE Parvel Dr. Manoranjan Patri, Director, NMRL, Mumbal Mr. Kashinath Deodhar, Group Director, ARDE, DRDO Dr. Makarand Joshi, RSDE, DRDO, Pune Dr. Sashi Kanta Panigrah, Diatr, Pune Prof. Reghu Prakash, IIT Madras Mr. Samresh Chanta Panigrah, Diatr, Pune Prof. Reghu Prakash, IIT Madras Mr. Samresh Chand, and Erector, CREMILAC, Nashin Mr. Atul Sakare, Acid. Director, CREMILAC, Nashin Mr. Sudhakar Bood, Chainman, ASM International India Chapter. Mr. Sandege Rege, Secretary ASM & DGM Mahindra & Mahindra Mr. Sudhakar Boode, Chainman, ASM International India Chapter. Mr. Sandege Rege, Secretary ASM & DGM Mahindra & Mahindra Mr. Rimzath B., DIAB Group, Sweden Mr. Sudhira K Valdya, Manager, SAE WESTERNINDIA GROUP Local Organizing Committee PRESENTS ONLINE **THREE - ONE WEEK AICTE APPROVED** STTP 3: "Composites: Fracture Toughness, NDE and Failure Analysis" during March 15 - 20, 2021. On successful completion, participants will be awarded ACTE & PMCET approved certificates. CERTIFICATE SHORT TERM TRAINING PROGRAMS Souvenir Three separate souvenirs will be brought out on this occasion, it will contain the abstracts of the respected STIP's. The teriff for advertisements in the souvenir is as below: Back Cover: Rs. 10,000. & Inside Cover Pages Rs. 7,500/-, Full Page Rs. 2,000. & Amail page Rs. 3,000/-. COMPOSITES: FRACTURE TOUGHNESS, **NDE & FAILURE ANALYSIS** Exhibition & Presentation by Exhibitors Concurrent with the workshop an online Exhibition is planned for the display of products & processes of the company that will provide best platform for growth of business in large size Indian market related to: THIRD STTP: DURING MARCH 15-20, 2021 Organised by market related to: - Composite raw materials (resins, reinforcements, etc.) - Equipment related to manufacturing process - Inspection and NDT equipment - Display of high-performance products in MMCa, CMCs & PMCa for Aerospace, Automotive, Marine, Construction, Transportations, Defense, Sports / Leisure, Agriculture, etc. - Exhibition Tariff The exhibition tariff is Rs. 3,500/- with free registration & certificate for one delegate, one-page advertisement in the Souvenir of respected STTP and five minutes slot for product presentation. r. Sudhir B. Vaidya, Manager, SAE WESTERNIND/ Local Organizing Committee Dr. Divya Padmanabhan, PCE Parvel Dr. T. Tambushkar, PCE Parvel Dr. Viswejit Panda, PCE Parvel Dr. M. D. Nadar, PHCET Rasayani Mr. Suhas Uhale, PHCET Rasayani Mr. Saurabh Siraikar, PHCET Rasayani Mr. Saurabh Siraikar, PHCET Rasayani Mr. Satrabh Shushan, PHCET Rasayani Mr. Karthik Nagarajan, PHCET Rasayani Dr. Ajit Bhandakkar, Secretary, SFA Mumbai Ch The control of the page advertisement in the Souvenir of respected STTP and five minutes solf for product presentation. REGISTRATION FEE (a) Participants from AICTE recognized colleges: No registration feewill be charged from faculty members. (Restricted to 40 participants only in each of the three separate STITP's) (b)Participants from their organizations (Limited to 4 participants only): Participants from Industries and R&D Organizations have to pay Rs. 2,000: per candidate per STTP as registration fee. This amount is to be sent along with the application form. Registration fee includes an electronic copy of the souverin. Link for Registration: https://forms.gle/C2b.VCTRI-MCC_WISLATD Lat Date of registration for STTP-3 is 10 March 2021 MODE OF PAYMENT: All payments should be made through RTGS (crossed Demand Draft in favour of "PHCET R&D Account" A/C No.: 5214220011188 Bark: Syndicate Bank, Khaire Patalganga ISSC Code: SYND0005214 Institution PAN: AAATM5S36H Supported by Knowledge Partners Dr. Ajit Bhanda kkar, Secretary, Se A Mumbai Chapter Steering/Program monitoring committee AICTE STTP: Dr. Mathew T. Joseph, Principal: Chairman Dr. R. C. Prasad, Coordinator & Member Secretary Dr. G. V. Patil, Head Mech. Engy. Dept.: Member Dr. S. Pawar, Head Automobile Engy. Dept.: Member Dr. Priam Pillai, (COO of MES: Member as a Subject Expert Address for Correspondence: Prof. R.C. Prasad Coordinator & Vice Chairman SFA Mumbal Chapter Department of Mechanical Engineering, PMCET, Rasayan Mobile :-09869236512 Fax :-2748-3208 Email :-rsspp-@gmail.com/ rcpraaad@mes.ac.in Web > www.sfa.mes.ac.in EINDIA AS

ABOUT THE STTP

Light weight, corrosion and damage resistant, tough composites are considered a major break-through that has revolutionized their use for many high-performance parts in automotive, Aerospace, Defense and Merine industries, india has rapidly advanced to face the challenges and opportunities that lie in the area of composites applications. This has dramatically impacted the GNP & employment opportunities in our country. New courses related to composites and non-destructive testing of composites have been introduced in Indian Technological Institutes. Fracture toughness, NDE and Demage mechanisms have become an active area of research. Extensive research carried out in academic and research institutes has brought india at the threshold of a new era. Professional manufactures are increasingly looking for defect free, durable & defect tolerant composites components using Fracture Mechanics. ASTM has formulated standards for determination of Translaminar & Interlaminar fracture toughness of PMCs for durability and damage tolerance assessment under, tensile fatigue and impact damage conditions. damage tolerance
Impact damage conditions.
Composites have poor flaw resolution compared to

microscopically homogeneous conventional metals due to noise attenuation. The use of NDT for composites is thus highly challenging due to its anisotropy and complex failure modes. Fracture mechanics approach integrated with NDE and Failure analysis have become game changers

in industries. With these challenges in mind and keeping in view the worldwide interest, these three separate one week Certificate AICTE approved STIT's have been designed at PHCET, Rasayani. This course plans to take stock of the current state of the art in Polymer & Rubber composite technology. The objective is to provide basic understanding of synthesis, fracture toughness evaluation using fracture mechanics, defect detection using NDT & understand modes and mechanisms of fracture for analysing failure of composite structures. Training in this emerging area will facilitate research, bridge the gap between academia & industries and enhance placement opportunities for students.

UST OF RESOURCE PERSONS (Tentative) FOR STTP -3 DURING March 15 - 20, 2021

DURING March 15 - 20, 2021

1. Dr. R. C. Prasad, Professor, PHCET RASAYANI

2. Dr. Rajkumar Kasillingam Director, IRMRA Mumbal

3. Mr. Shantanu C. Prabhune, L&T Mumbai

4. Prof. Shridhar Yarlagadda, University of Delaware, USA

5. Dr. Prakash D. Trivedi, Gharda Chemicals Mumbai

6. Dr. Biswajit Panda, PCE, Panvel

7. Dr. Virendra Kumar Gupta, Head R&D & Senior VP, Reliance Research, Mumbai

7. Dr. Virendra Kumar Gupta, Head R&D & Senior VP, Reliance Research, Mumbal
8. Shri, Kashinath Deodhar, Group Director, ARDE, DRDO, Pune
9. Prof. Ramesh Taireja, Tenneco Prof., TEXAS AAM UNIVERSITY, USA
10. Dr. Deobatta Rafina, Scientist, MRR. Ambernath
11. Dr. Dineshsingh Thakur, Professor, DIAT, Pune
12. Mr. Alif Bhandakkar, DGM HAI, Nashik
13. Mr. Rimzath B, DiAB, Sweden
14. Prof. Shahara Sastry, Washington University in St. Louis, USA
15. Dr. C, M. Manjunatha, Chief Scientist, NAL Bangalore
16. Mr. Shyamsunder, Chairman ISNT
17. Dr. Raghe Prakash, IRI Madress
18. Dr. Ravi Babu, CECRI, Tamilinadu
19. Dr. Dattajir, K. Shinde, Professor, URI, Matunga, Mumbal
20. Dr. S. K. Panigrah, Professor, URIT, Pune
12. Prof. Chandros Sekher Verramalli, 8T Bombay
22. Mr. Praveer Verma, DMSRDE, Kampur
23. Dr. P. at Guruprasad, Professor, IIT Bombay
24. Dr. Guruprasad Rao, Director, IET Bombay
25. Dr. Atul Bakare, Addl. Director, CEMILAC, Nashik
26. Mr. Samaresh Changdar, Gelindia Pvt. Ltd., Pune
27. Prof. Nagmani Jaya Balta, Dept. of MEMS, IIT Bombay
28. Mr. Manganah V. Joshi, CCO, Sarrachana Pvt. Ltd., Thane
29. Dr. G. S. Prabhu, Managing Director, Fine Finish, Taloja
30. Dr. Sumanda Bandyopadhyay, SABIC, Bangalore
31. Dr. Pools Rattar, D. Kr. E.S. Ichaikaranii
32. Dr. Divya Padmanabhan, PCE, Panvel
33. Dr. G. V. Pabl, PHCET, Rasayanii

REGISTRATION FORM

THREE SEPERATE ONE WEEK AICTE APPROVED CERTIFICATE

SHORT TERM TRAINING PROGRAMS

COMPOSITES: FRACTURE TOUHNESS, NDE & FAILURE ANALYSIS

THIRD STTP: DURING MARCH 15 - 20 2021

GENDER M / F

MAILING ADDRESS

TEL: (O) (R):

QUALIFICATION : EXPERIENCE in Yrs

MODE OF PAYMENT: All payments should be made through RTGS / crossed Demand Draft in favor of "PHCET R&D

A/C No. : 52142200111189

ORGANISATION:

IFSC Code: SYNB0005214

Institution PAN : AAATM5536H





IIC PHCET & Department of Mechanical Engineering, PHCET conducted Short Term Training Program (STTP) under AQIS 2019-20 during the financial year 2020-21 vide Ref.No.:34-66/442/FDC/STTP/Policy-1/2019-20 dated 10 August 2020 on "Composites: Fracture Toughness, NDE & Failure Analysis "

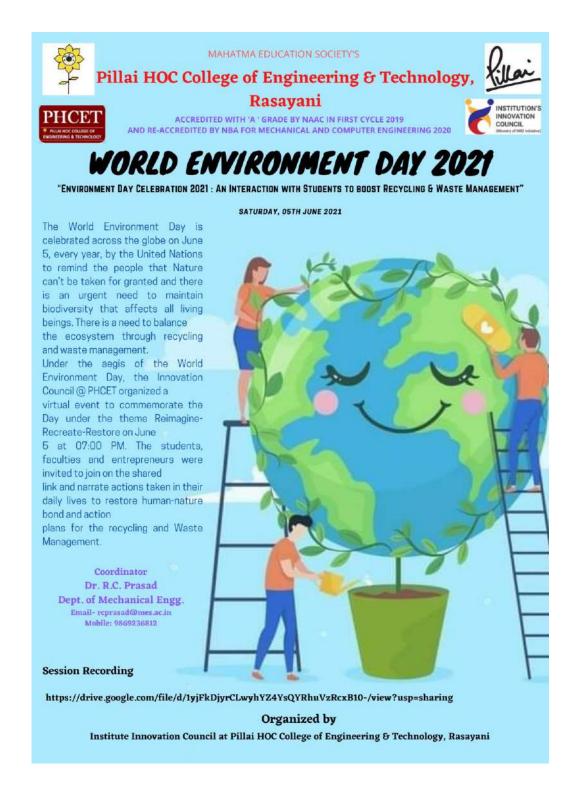
The third STTP was conducted during March 15-20, 2021. The highlight of the STTP has been the participation of leading professional societies in the country like Society for Automotive Engineering, Western Region, Institution of Engineers, Maharashtra Region, ASM International India Chapter, Society for Failure Analysis, Mumbai Chapter, Indian Society for Remote Sensing, Mumbai Chapter, Materials Recycling Association of India and the Indian Rubber Manufacturers Research Association, Mumbai. Their involvement immensely benefited participants and allowed them to interact with industries related to the subject matter of the STTP. STTP covered processing of Polymers, Polymer Blends & Composites, and their mechanical and Non-destructive characterization to ensure quality assured industrial products. This was followed by case studies of failures in different industrial sectors and ways and means to prevent such failures. The STTP also covered advanced manufacturing processes like additive manufacturing and 3D printing. The lectures were delivered by the industry experts, faculty from NITs and IITs as well as leading foreign universities. The applications of Polymers, composites and NDE for medical applications were also covered by eminent speakers.



Session Screenshot







Event Flyer





Under the aegis of the World Environment Day, the Innovation Council @ PHCET organized a virtual event to commemorate the Day under the theme Reimagine-Recreate-Restore on June 5 at 07:00 PM. The students, faculties and entrepreneurs were invited to join on the shared link and narrate actions taken in their daily lives to restore human-nature bond and action plans for the recycling and Waste Management.

At the outset Prof. R.C. Prasad, President of the Innovation Council @ PHCET welcomed the participants and gave an insight into waste segregation, recycling and waste management for circular economy. He also outlined the upcoming National Workshop on June 21 and State Level Hackathon 2021. School students were briefed on how to prepare their video recorded presentations for the competition. After his talk, Dr. T. J. Mathew, Principal PHCET shared his experience and gave valuable tips on video recording. More than 120 students and faculty participated the interactive session. The session ended with Question Answer session and vote of thanks. Positive feedback was received from participants and faculties.



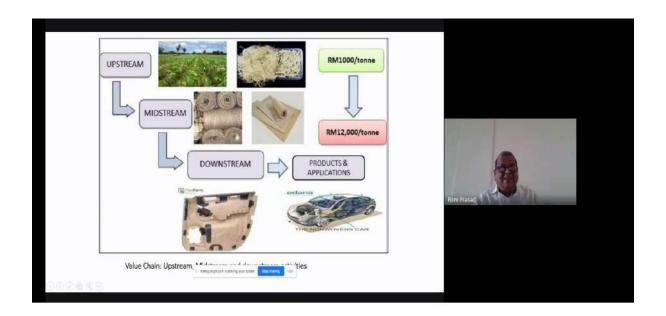
Session Screenshot





IIC & PHCET organized a webinar on "Recycling Metals, Plastics & Scrap Tyres: Circular Economy Road map to Build Green India". The invited speaker was Dr. R.C. Prasad, who is retired professor of IIT Bombay & now he is working with Pillai HOC College of Engineering & technology, Rasayani as a Professor. He has published several papers on materials, failure analysis of metals and nonmetals He also conducted several workshops on Composites: Fracture Toughness, NDE & Failure Analysis, Corrosion Fatigue, Fracture and Failure Analysis & Structural Integrity and Failure Analysis of Welded Structures Using Fracture Mechanics. He has delivered several lectures on different platforms.

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



Session Screenshot





Sponsorship

The event can be sponsored by donating Rs.10,000/-. The sponsorship entitles mention in the souvenir, free registration for three delegates

A souvenir will be brought out on this occasion. It will contain the abstracts of the papers and advertisements. The tariff for advertisements in the souverir is as below:

Back Cover Rs.8,000!-

Inside Cover Pages Rs.6,000/-Rs.3,000/-

Registration Charges

Category	Fees (Rs.)
SFA Members & Faculty	500
Participants from Industries & Non-Members	1300
Student Participants	Nil

Payment may be made through DD / Cheque drawn in favor of 'R&D PHCET.

RTGS / NEFT / IESC: Code Details:

Name of the Account Holder: PHCEI Research and Development Account
Name of the bank: CANARA BANK
Branch: Khaire, Patalganga
Account No. 52142200111189 Account No. 52142240111105 RTGS / NEFT / IFSC Code: CNRB0015214

Persons destrous of participating in the workshop are requested to kindly provide details provided in the accompanying form and send the same to the Convener.

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Address for Correspondence:

Dr. R.C. Prasad
Convener & ViceChairman SFA Mumbai Chapter
Retd. Professor ITT Bombay & Professor

Department of Mechanical Engineering, PHCET Rasayani Mobile : 09869236812 / 8433883165 Email: - rssppa@gmail.com / rcprasad@mes.ac.ih

ONLINE ONE DAY NATIONAL WORKSHOP On

"Recycling Metals, Plastics & Scrap

Tyres: Circular Economy Road map to Build a Green India"

Organized by

21 June, 2021





PHCET Rasavani

Supported by







Invitation

The Incubation, Innovation & Entreprenurship Cell of the Mahatma Education Society's PHCET Rasayani is inviting you to attend the online National Workshop that is being organized in with SFA Chapter,MRALIRMRA & ASM International India Chapter on " Recycling Metals, Plastics & Srap Tyres : Circular Economy Road to Build Green India" on June 21,2021

About the Workshop

India with 1.3 b population is undergoing rapid urbanization and modernization. This has resulted in release of large amount of metallic, plastic & scrap tyres that are litterd all around. Plastics & tyres have long end life and degrade very slowly due to long carbon bond in polymer chain. It takes hundreds of year to decompose. ecording to WEF-2016, there will be more plastics in ocean than fishes by 2050, if there are no interventions. Micro plastic in fishes can endanger our health. It is estimated that nearly 1 million PET bottles are wasted every minute. The current COVID 19 Pandemic has also resulted in increased consumption of plastics and pollution of environment. According to WLF if only 1% masks are incorrectly disposed then nearly 10 million masks per month are going to environmental pollution. Our current waste management approach does not appear to be holistic, as it does not consider the entire chain starting from design to product development and waste management Today landfills are considered one the easiest ways for the disposal of metallic, plastics and scrap tyres. However, we need to develop a sustainable holistic waste management and low carbon planning in cities to adopt circular economy and convert waste to wealth. Indian industries are mendated to follow EPR strategies for sustainable waste management and give a wastes through holistic life cycle management

Workshop Objectives

In the light of above and the worldwide interest, the SFA Mumbai Chapter and the Mahatma Education Society's PHCET Rasayani is organizing this one day National workshop on "Recycling Metals, Plastics & Scrap Tyres: Circular Economy Road map to Build Green India " to bring all the stake holders on one platform to sensitize and share knowledge about circular economy, increase public awareness, adopt sustainable behavior, challenges and opportunities in waste management and use of recycled plastics in advanced manufacturing processes like additive

Tentative topics to be covered:

Overeview of recycling of metals, plastics & scrap tyres

Challenges & opportunities in solid WM Current approaches & scope for WM in India Role of academia industries & research establishments to meet the challenges of WM -Development of sustainable holistic waste management for circular economy in Indian context Design thinking for adopting Circular economy

-Urban Environment management: Low carbon planning for smart cities & give second life to waste-Task force for creating a road map to create clean and green India

REGISTRATION FORM

Online One Day National Workshop on

" Recycling Metals, Plastics & Scrap Tyres: Circular Economy Road map to Build Green India "

June 21, 2021

NAME (PRINT):

DESIGNATION

ORGANISATION:

MAILING ADDRESS :

FMAIL:

(O) (R) MOBILE: FAX

Bank Details for Payment towards sponsorship / participation DD / Cheque No. ______ drawn in favor of 'PHCET Research & Development Account' are given below .

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Branch Khaire, Patalganga Account No. 52142200111189 RTGS / NEFT / IFSC Code: CNRB0015214

Signature

Event Flyer







PILLAI HOC COLLEGE OF ENGINEERING AND TECHNOLOGY



ONLINE STATE LEVEL HACKATHON 2021 ON

Solution for Recycling Metals, Plastics & Tyres for Circular Economy Steps towards creating a Circular Economy Road Map to build a Green Nation

Workshop on "Circular Economy Roadmap for Metals, Plastics & Tyres" on June 21, 2021 Poster Presentation Competition for Students of Polytechnic

" From waste to Wealth : Circular Economy Roadmap "

Participate in Poster Competition

Win Prizes Connect to Industry mentors/Enhance **Employbility**

COORDINATOR

Prof. R. C. Prasad Dept of Mechanical Engg, PHCET Email: rcprasad@mes.ac.in Mobile: 9869236812

About the Hackathon

This event is an outreach program aimed to excite young towards emerging technologies of waste management of metals, plastics & tyres through recycling and create a Circular Economy road map to build a green Nation.

- During this program a workshop titled " Circular Economy roadmap for metals, plastics & tyres" shall be
- organized on June 21, 2021 where experts from industries, professional societies and academia will emphasize the need and ways to recycle plastics & tyres to save environment and create Circular Economy.
- · After this an Poster competition will be held amongst the best 3 groups on " From waste to Wealth: Circular **Economy Roadmap**"
- · Each college shall be invited to select three teams consisting a maximum of three students with strong interest in pursuing engineering career. These students should be asked to send a poster on the above topic latest by June 15, 2021.
- * Three teams shall be selected to give online Oral presentation for 10 minutes during the final competition on June 21, 2021.
- · Best 3 teams with content & presentation skill shall be awarded cash prizes along with a certificate.

Link to Participate in Competition: https://forms.gle/JGKYM3xN95NnHjmZ8

ORGANIZED BY

Incubation, Innovation and Entrepreneurship cell

Dept of Mechanical & Automobile Engineering Pillai HOC College of Engineering and Technology, Rasayani



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Event Poster







PILLAI HOC COLLEGE OF ENGINEERING AND TECHNOLOGY



ONLINE STATE LEVEL HACKATHON 2021 ON

Solution for Recycling Metals, Plastics & Tyres for Circular Economy Steps towards creating a Circular Economy Road Map to build a Green Nation

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"From waste to Wealth: Circular Economy Roadmap"



Participate in Poster Competition

Win Prizes Connect to Industry mentors/ Enhance Employbility

COORDINATOR

Prof. R. C. Prasad Dept of Mechanical Engg, PHCET Email: rcprasad@mes.ac.in Mobile: 9869236812

Poster Guidelines

- · Poster boards will accommodate A0 size portrait posters: height 1189 mm (46.8 inches), width 841 mm (33.1 inches). Please ensure that your display will fit within these parameters.
- · You are free to choose landscape or portrait orientation. Title should be in bold. Author's affiliations and e-mail addresses for should be included.
- Text: a poster should be easily readable from a distance of 1 - 2 meters, and 1.5 or 2 lines of spaces should be used between each line. It is advised that authors should also pay attention to the following points:
- Headings should be 25% larger than normal text. Bold or other colors may be used.
- Suggested font sizes are (for the A0 format):

Main title: 78 pt (bold, upper case) Author: 72 pt (bold, title case)

Affiliation(s): 48 pt (normal, title case)

Email address: 36 pt (bold)

Subheading: 36 pt (bold upper case)

Body of text: 24 pt (normal)

Smaller fonts may be used in citations and

acknowledgement.

Poster Submission Deadline: June 15, 2021 Poster Presentation: June 21, 2021

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Dept of Mechanical & Automobile Engineering Pillai HOC College of Engineering and Technology, Rasayani



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Event Poster







Event Screenshot



Event Screenshot







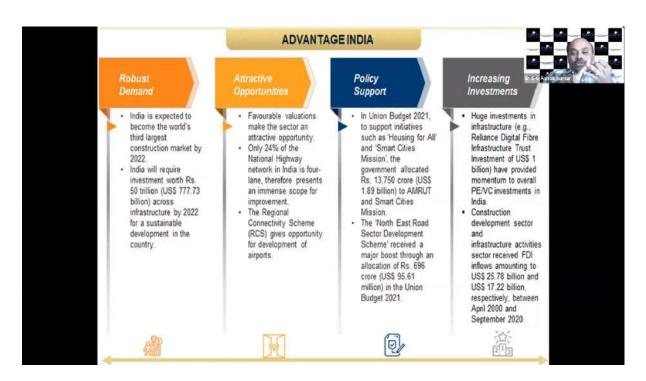
Event Flyer

Institute Innovation Council, (IIC) Pillai HOC College of Engineering and Technology, Rasayani has conducted a webinar on Importance of Internship and





Career Guidance for Engineers on June 18, 2021 for the students of all branches. Er. Ashok Kumar Founder, Construction Management Training Institute, Bangalore was invited as a resource person. The main objective of this webinar was to give in detail information about importance of internship in engineering. Around 125 participants from second year, third year, final year, master's students and 12 faculty members of various department attended the webinar, enriched their knowledge and skill in this field. The participants furnish positive feedback about the workshop. The workshop helped the participants to get well acquainted with various opportunities available for internship.



Session Screenshot

N. Contact:

Dr. Gajendra V. Patil

Convener IIC & Professor and Head, Mechanical Engineering Department Pillai HOC college of Engineering and Technology

Pillai HOC educational campus, HOC colony, Rasayani Via Panvel

Dist: Raigad Pin: 410207

Mobile 9224281153, 9137024733