



RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University

An ISO 9001: 2015 Certified Institution



Department of Mechanical Engineering

In Collaboration with

Institution's Innovation Council [IIC]



Online Webinar On

IMPORTANCE OF MATERIALS IN ENGINEERING

04.05.2020

10.00 AM to 11.30 AM

&

04.00 PM to 05.30 PM

Resource Persons



Dr.S.Karthikeyan,
Associate Professor,
Mechanical Engineering,
PSNA CET,
Dindigul.



Dr.P.Sureshkumar
Associate Professor,
Mechanical Engineering,
Ramco Institute of Technology
Rajapalayam

Faculty Coordinator

Mr.G.Prabu ram, Assistant Professor (Senior Grade),
Ramco Institute of Technology, Rajapalayam

Report – Webinar on Importance of Materials in Engineering

Department of Mechanical Engineering in Collaboration Institution's Innovation Council [IIC] organized a one day online webinar in “**Importance of Materials in Engineering**” on **04.05.2020**. Sessions were handled during **10.00 AM to 11.30 AM & 04.00 PM to 05.30 PM** through ‘**Google Meet**’ Platform.

Session I – 10.00 AM to 11.30 AM

Handled by: **Dr.S.Karthikeyan**

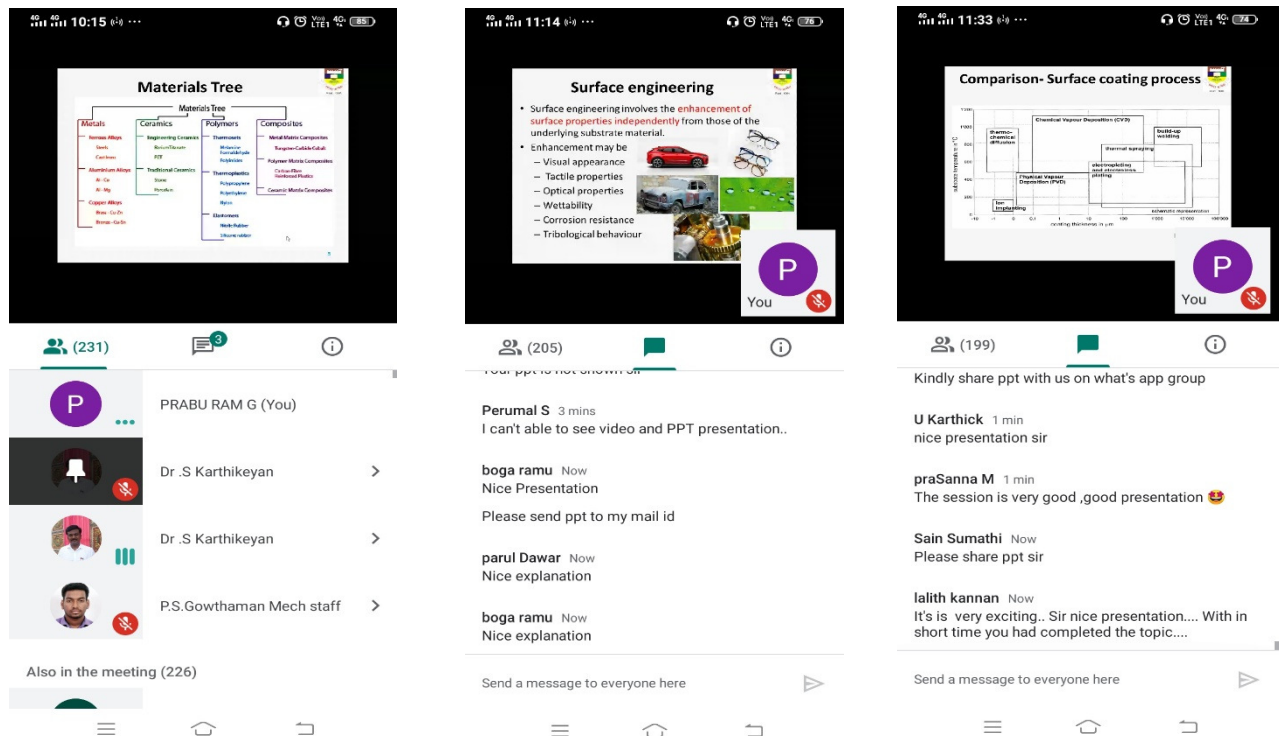
Topic: **Surface Engineering: A key role in Modern Materials**

The webinar was started by 10.00 AM through google meet platform with welcome address and Introduction to the resource person by Mr.G.Prabu ram, AP(Sr.Gr)/Mechanical. Totally 231 (two hundred and thirty one) participants attended the session I.

Outline of Presentation

- Importance of Material science
- Reasons for Material Failure
- Surface Damage
- Wear & Types of Wear
- Mechanism of adhesion
- Erosive Mechanism
- Surface fatigue Mechanism
- Corrosion and types of corrosion
- Surface Engineering & Need of it
- Question & Answer session.

Session I Prevue:



Session II – 04.00 PM to 05.30 PM

Handled by: **Dr.P.Sureshkumar**

Topic: **Theory of Plasticity: Analysis through Engineering Application**

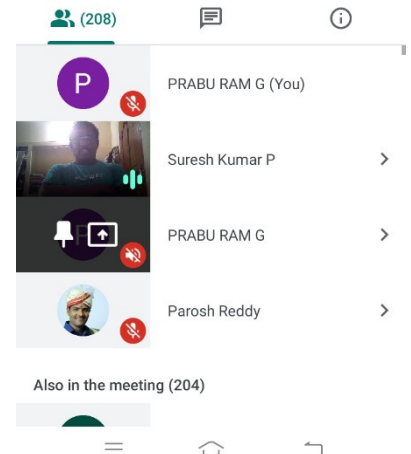
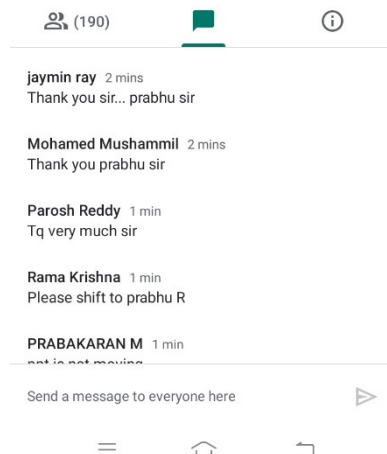
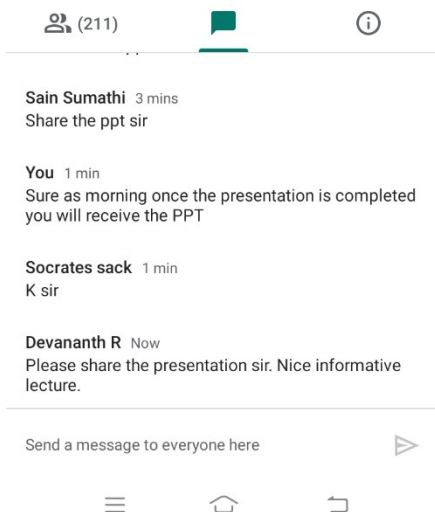
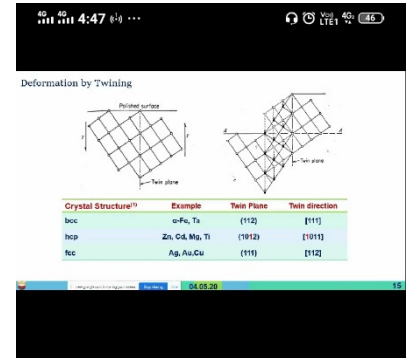
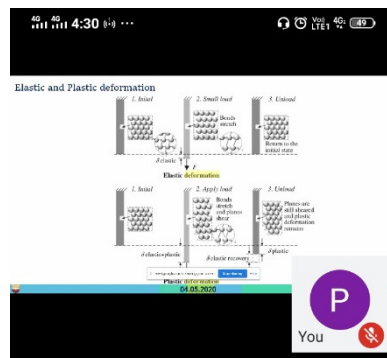
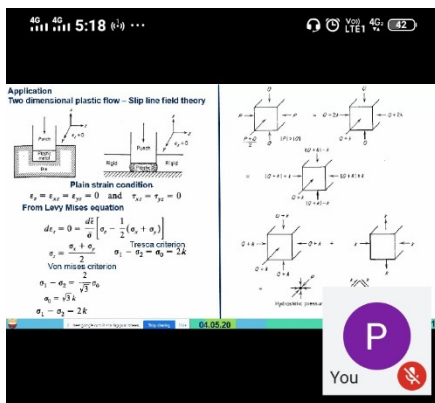
The webinar was started by 04.00 PM through google meet platform with welcome address and Introduction to the resource person by Mr.G.Prabu ram, AP(Sr.Gr)/Mechanical. Totally 211 (two hundred and Eleven) participants attended the session II.

Outline of Presentation

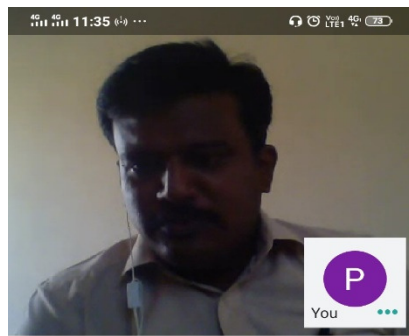
- Existence of Plasticity
- Non Linear behaviour of Materials
- Stress Components
- Elastic stress- strain relations
- Properties of Dislocations

- Understanding Slip & Twinning
- Deformation by slip
- Deformation by Twinning
- Application of Plasticity theory
- Flow curve
- True stress & True strain
- Incremental Theory of Plasticity
- Yield Criteria

Session II Prevue:



Question & Answer session:



(199)

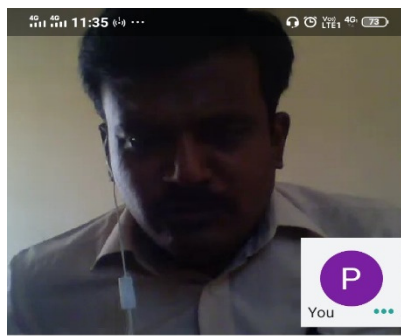
vignesh packkirisamy Now
what are all the possible thrust research area?

jeeyaram m Now
Kindly share your ppt sir

vaka venkata sai hasini Now
it was such an informative presenation sir. thankyou so much for this presentation

Ashok K Now
Sir can coating be given on the surface of natural fibres

Send a message to everyone here



(199)

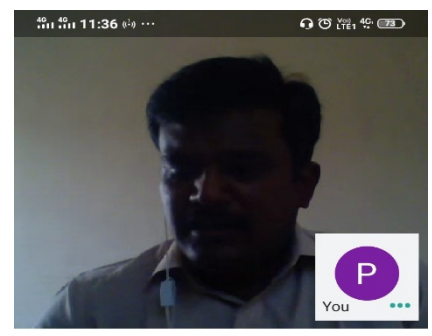
Ashok K Now
Sir can coating be given on the surface of natural fibres

THOJESH NANDHA M Now
Thanks sir

Muthu Chozha Rajan B Mech Now
Sir what is resaon behind that hexagonal metal have low wear rate than cubic metal

Revathi Civil Now
Nice presentation, thank you sir

Send a message to everyone here



(198)

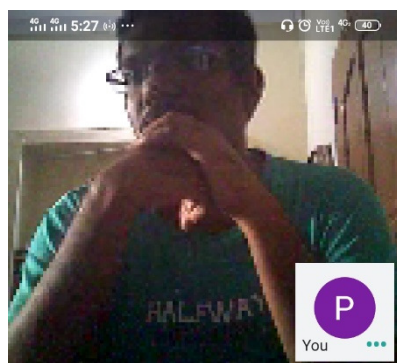
Ajay Kumar Reddy Now
Sir, for a coated material how to know the adhesion property?.

d kameswararao Now
Nice presentation..Good

RAJU D Now
Sir, How surface fatigue can determined in bearings and how to overcome surface fatigue in bearings

sivaramakrishnan thirumurthy Now
The coordination number of HCP and CCP lattice are same. Why do they differ in their solid state properties

Send a message to everyone here



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analysis of plasticity

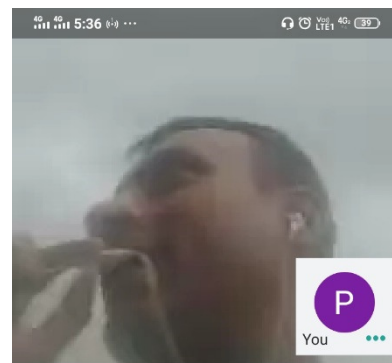
Kannappan Subramaniam Now
Thanks RIT & Team

b ramakrishna Now
screw dislocation materials sir

karthik selvan Now
Assessment link sir

Surender Pratap Now
Sir I want to know have you seen plastic deformation in case of graphene??

Send a message to everyone here



(142)

Ranjeet Singh 10 mins
Thank you so much sir for this informative session.

b ramakrishna 9 mins
thank you sir

Deepak Garg 9 mins
Thanks prabhu ram sir

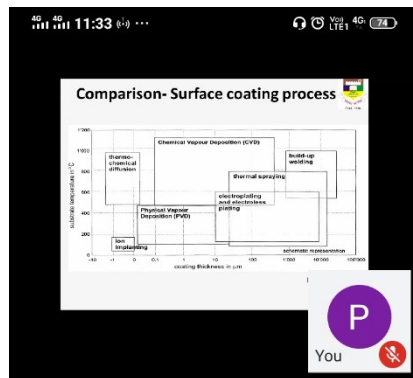
Gopi M 9 mins
Thank you sir

Revathi Civil 9 mins

Send a message to everyone here



Live Feedback of Participants:



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The session is very good ,good presentation 😊

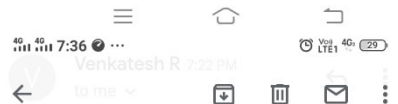
Sain Sumathi 1 min
Please share ppt sir

lalith kannan Now
It's is very exciting.. Sir nice presentation.... With in short time you had completed the topic....

sps 0607 Now
The session is very useful

Ranjeet Singh Now
The session was interesting and informative.

Send a message to everyone here



Good evening sir,

I am happy to inform you that, today's both sessions are very well.

Very good cooperation of organizing committee for conducting such programs.

In the morning session by Dr. S.Karthikeyan sir PPT was received by WhatsApp.

Hence, i request you to send me (by email lakatesh@gmail.com) AN session by Dr. P.SureshKumar sir PPT.

Overall the program is very nice, Properly maintained the time schedule, team work of organizer etc are well manner.

In future also, if you conduct such type of program means inform me by mail, i will definitely participate and will gather the knowledge from masters like you sir.

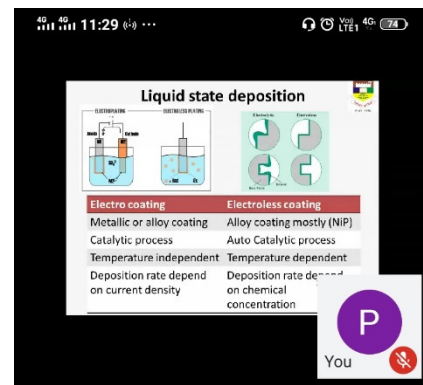
Once again thanking you sir.

By

Venkatesh R,
Assistant Professor,
Department of Physics,
PSNA College of Engineering and Technology,
Dindigul - 624 622.

Mobile No: 9976379749
Email id: lakatesh@gmail.com

Show quoted text



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Wonderful presentation sir

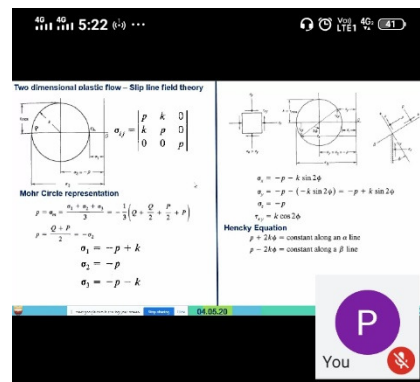
boga ramu 2 mins
Nice presentation Sir Please share the PPT

b ramakrishna 1 min
nice webinar
presentation is good

Rama Krishna 1 min
👍👍👍 Great webinar...presentation is very nice.

Sankar Lingam Now
Topics covered is very good...👍

Send a message to everyone here



(200)

RAJU D Now
K thank u sir

Sandeep Panchal Now
nice content and delivery....

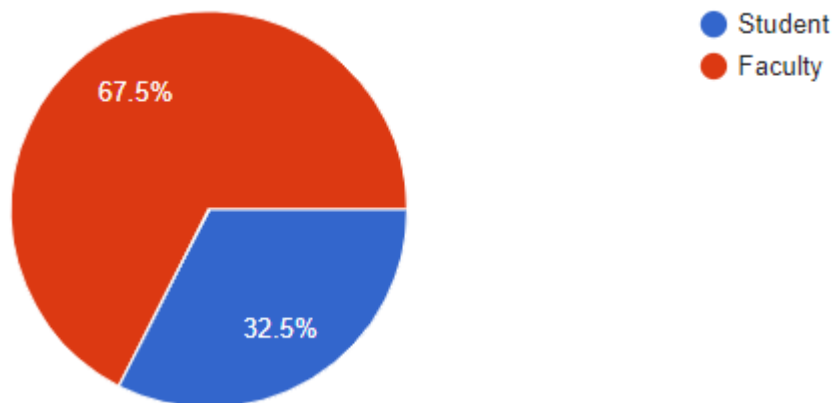
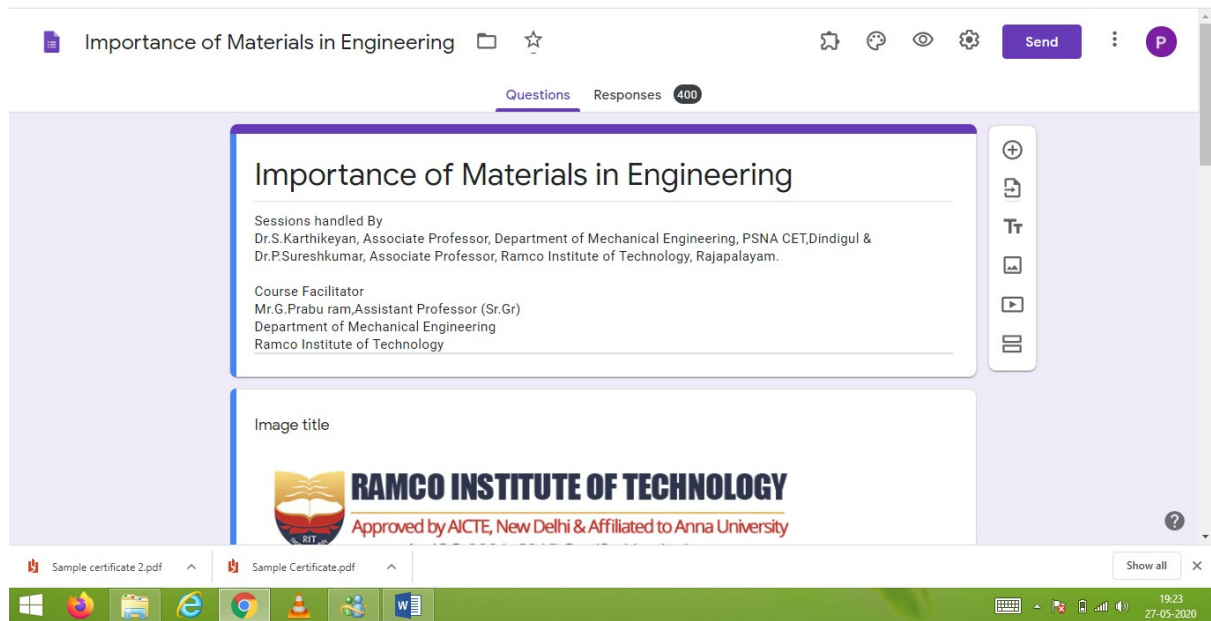
parul Dawar Now
Informative but vast

Rama Krishna Now
👍👍👍

Velu Mani Now
Nice lecture

Send a message to everyone here

Participation Details



- Totally 400 (Four hundred) participants registered officially across **India, Oman, Ethiopia** etc., out of which **270** faculty members and **130** students registered.
- The participants from various prestigious colleges such as
 - IISC, Bangalore
 - Ibra College of Technology, Oman
 - Wollega University, Ethiopia
 - Mangalore University

- Aaivalayam-DIRAC, Coimbatore
- Uka Tarsadia University, Gujarat
- Central University of Himachal Pradesh
- Annamacharya Institute of Technology and Sciences,
Rajampet
- Osmania university, Hyderabad
- GIET University, Gunupur, Odisha
- Vels University Chennai
- GCRG Memorial Trusts Group of Institutions. Lucknow
- Shivaji University Kolhapur
- Bharati Vidyapeeth College of engineering, Navi Mumbai
- Bannari Amman Institute of Technology, Sathyamangalam
- Anna University, CEG Campus
- Mepco Schlenk Engineering College
- Kamaraj College of Engineering and Technology
- Francis Xavier's Engineering college
- PSNA College of Engineering and Technology
- Sri Krishna College of Technology
- SNS Institute of Technology
- Sri Krishna College of Engineering & Technology
- SSM Institute of Engineering and Technology
- Government college of Technology, Coimbatore
- Dr.N.G.P Institute of Technology
- R.M.K. ENGINEERING COLLEGE

After assessment to the participants, Certificate was issued to the participants.
Totally **510** participants received their certificate after assessments.

Sample Certificate:

