SRM MADURAI
COLLEGE FOR ENGINEERING AND TECHNOLOGY
Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai

COLLEGE CODE : 9111 **COUNSELLING CODE : 5842**

Department of Mechanical Engineering
&
Quality Circle Forum of India (QCFI)
JOINTLY ORGANIZE A

FACULTY DEVELOPMENT PROGRAM ON
"RECENT TRENDS IN ALTERNATE FUELS"

30.01.2025

Event Speakers

Role of Nanotechnology in Alternate Fuels

Dr. MANIKANDA PRABHU N
Associate Professor & Head of Department
Department of Mechanical Engineering
Mahaguru Insitute of Technology, Allapuzha, Kerala

Fuel Characterization of Alternate Fuels

Dr. KANNAN G R
Professor
Department of Mechanical Engineering
PSNA College of Engineering & Technology, Dindigul

Registration Link : https://forms.gle/hDiFyxrnKJTdgEYe9

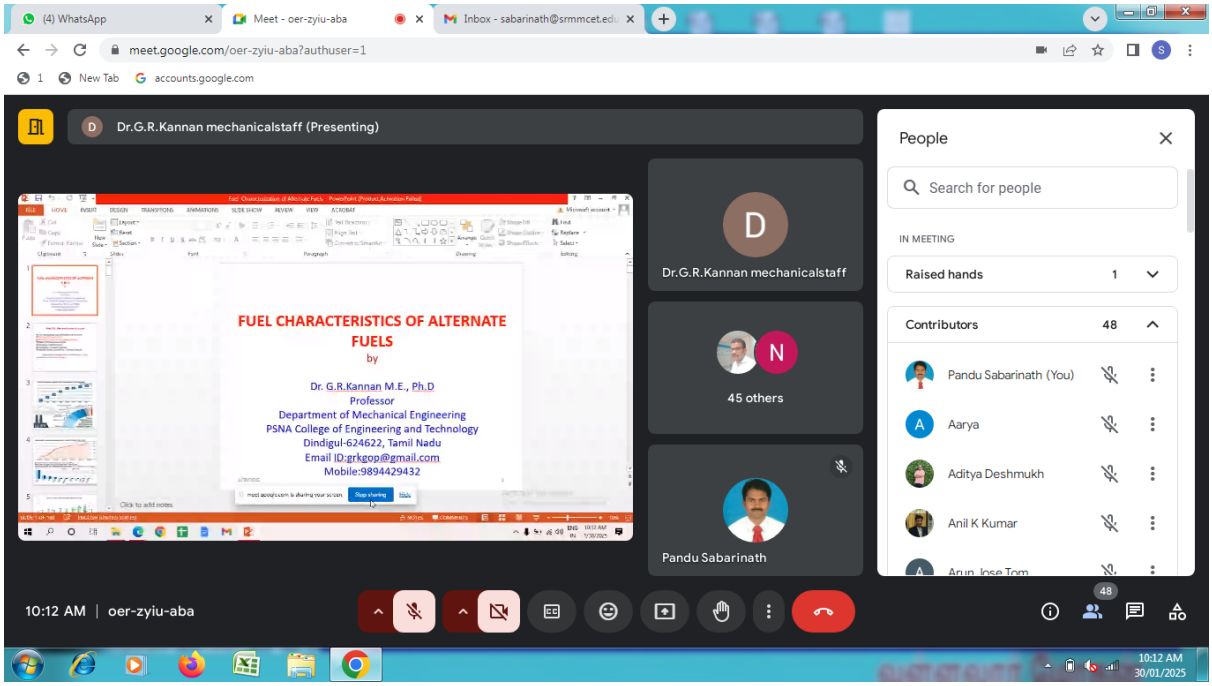
Whatsapp Group Invite Link : https://chat.whatsapp.com/CVYsKI3Zsg7E5IWYgcYbGi

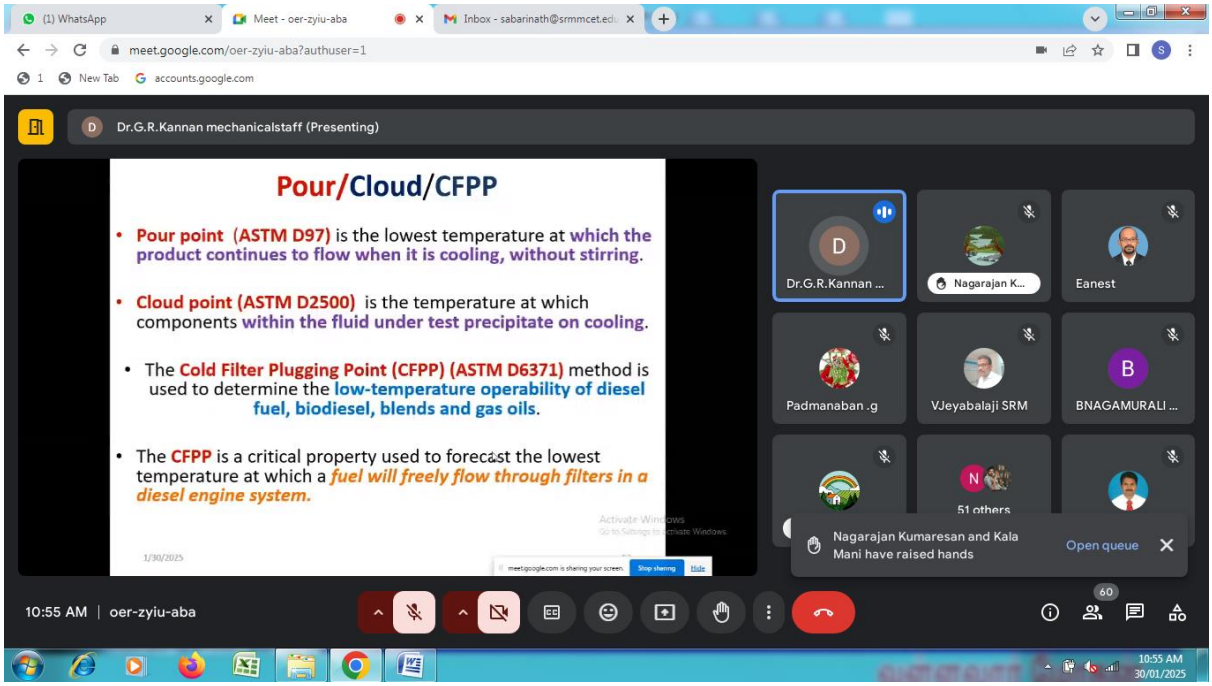
Coordinators	Co-Convener	Convener
Dr.R.ASHOK KUMAR, HoD - MECH	Dr.S.SAMBATH	Dr.S.DURAIRAJ
Dr.V.JEYABALAJI, AP-MECH	VICE PRINCIPAL	PRINCIPAL

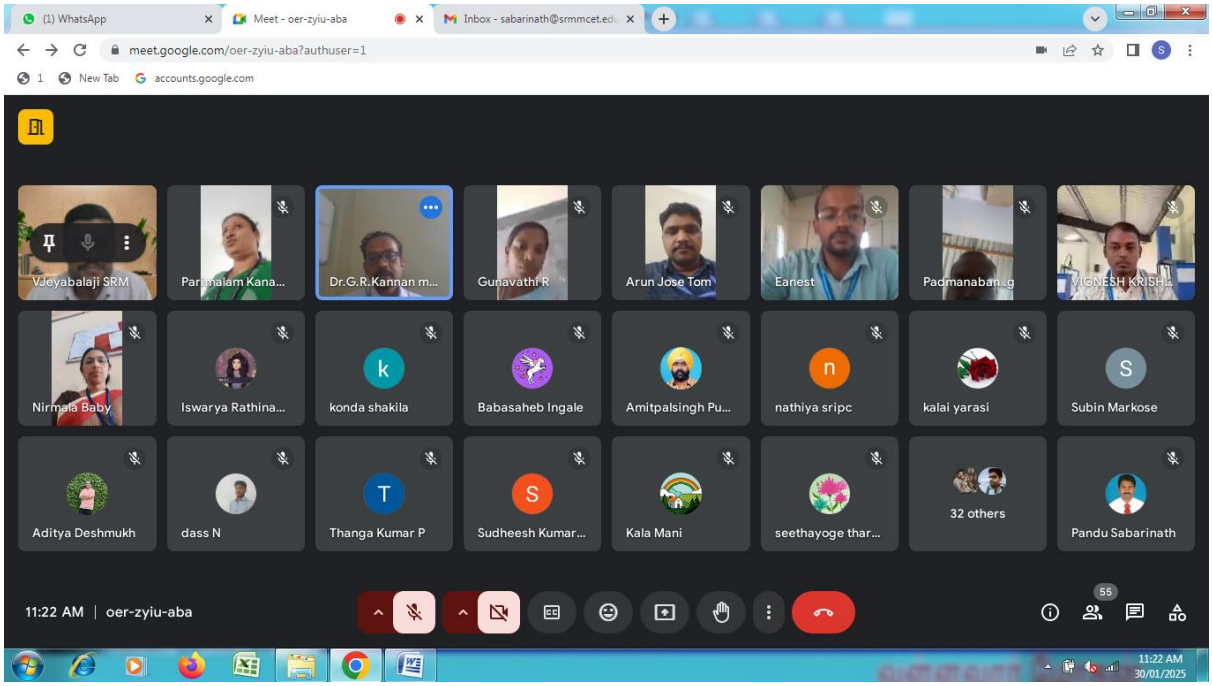
WWW.SRMMCET.EDU.IN +91 7845 775 188 | +91 7845 776 188

ONLINE FDP ATTENDANCE – (30-01-2025)

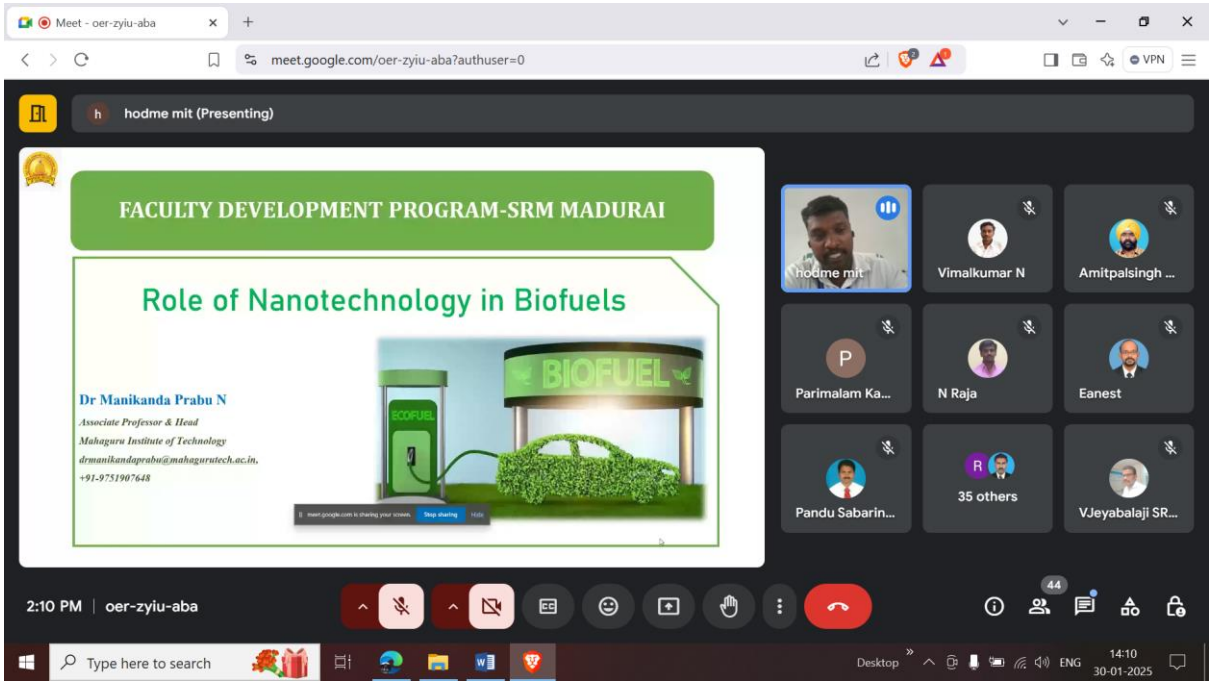
Session 1 – Dr. G. R. Kannan (Fuel Characteristics of Alternate Fuels) – 10:00 AM – 11:00 AM

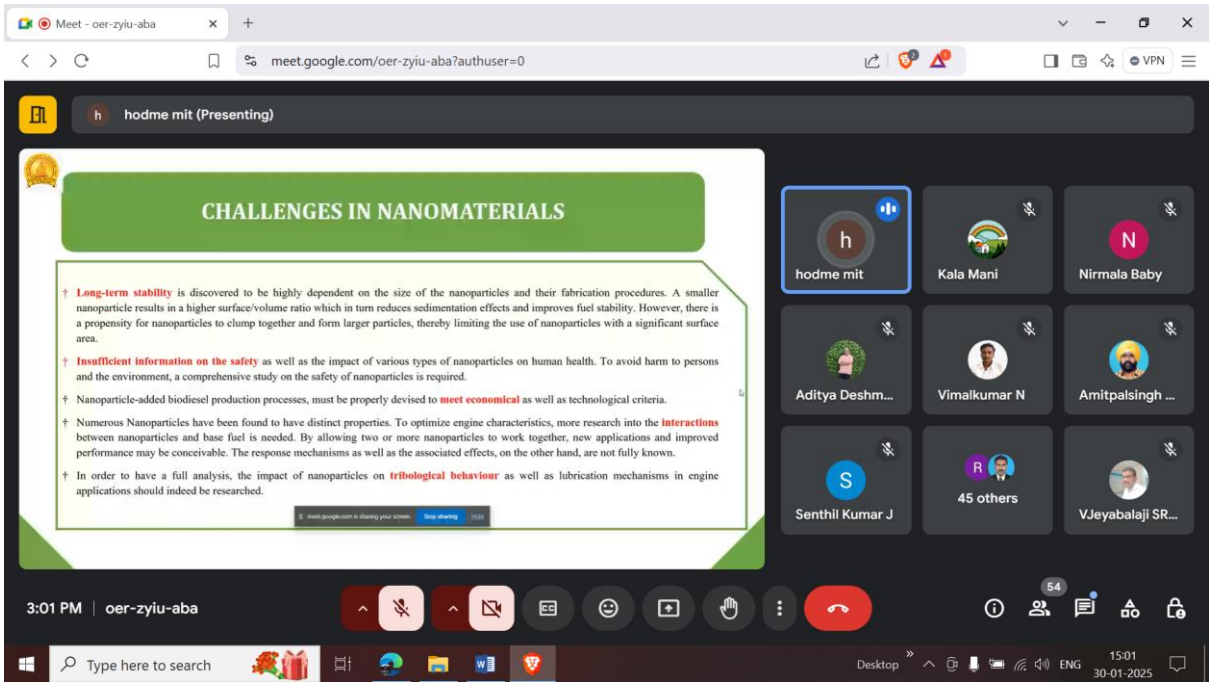






Session 2 – Dr. N. Manikanda Prabhu (Role of Biotechnology in Biofuels) – 02:00 PM – 03:00 PM

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hodme mit (Presenting)
CHALLENGES IN NANOMATERIALS
† Long-term stability is discovered to be highly dependent on the size of the nanoparticles and their fabrication procedures. A smaller nanoparticle results in a higher surface/volume ratio which in turn reduces sedimentation effects and improves fuel stability. However, there is a propensity for nanoparticles to clump together and form larger particles, thereby limiting the use of nanoparticles with a significant surface area.
† Insufficient information on the safety as well as the impact of various types of nanoparticles on human health. To avoid harm to persons and the environment, a comprehensive study on the safety of nanoparticles is required.
† Nanoparticle-added biodiesel production processes, must be properly devised to meet economical as well as technological criteria.
† Numerous Nanoparticles have been found to have distinct properties. To optimize engine characteristics, more research into the interactions between nanoparticles and base fuel is needed. By allowing two or more nanoparticles to work together, new applications and improved performance may be conceivable. The response mechanisms as well as the associated effects, on the other hand, are not fully known.
† In order to have a full analysis, the impact of nanoparticles on tribological behaviour as well as lubrication mechanisms in engine applications should indeed be researched.
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Kala Mani
Nirmala Baby
Aditya Deshm...
Vimalkumar N
Amitpalsingh ...
Senthil Kumar J
45 others
VJeyabalaji SR...
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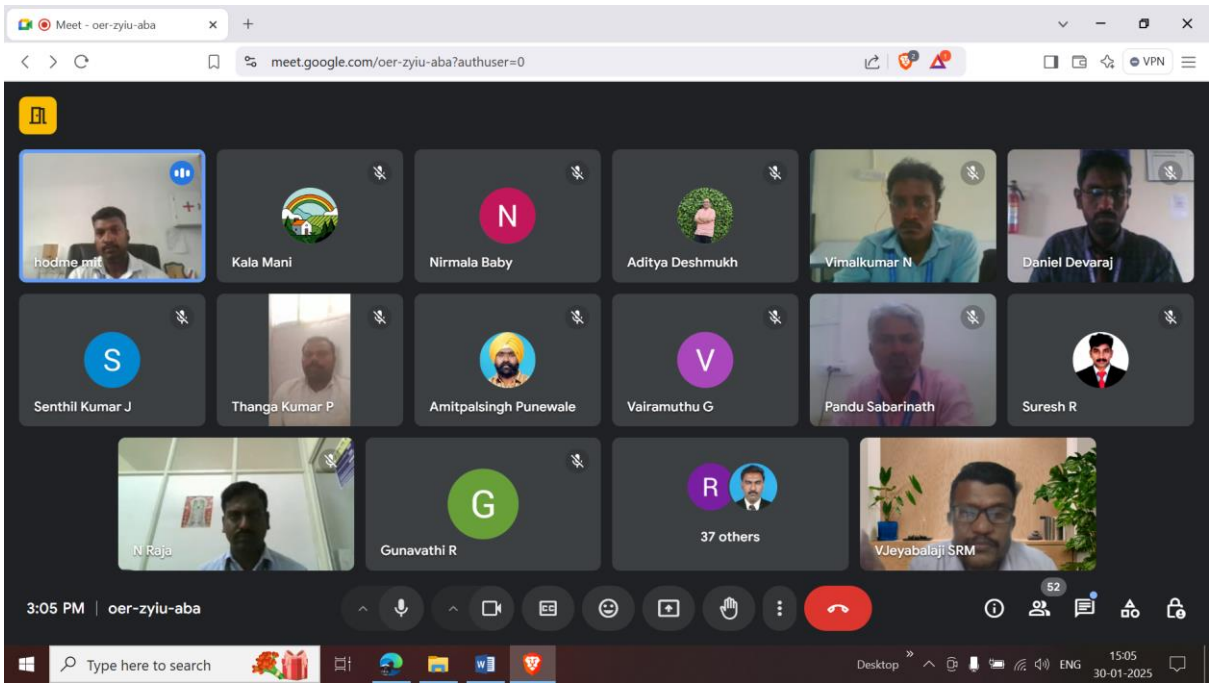
Meet - oer-zyiu-aba
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Kala Mani
Nirmala Baby
Aditya Deshmukh
Vimalkumar N
Daniel Devaraj
Senthil Kumar J
Thanga Kumar P
Amitpalsingh Punewale
Vairamuthu G
Pandu Sabarinath
Suresh R
N Raja
Gunavathi R
37 others
VJeyabalaji SRM
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