



**KSSEM**  
K S SCHOOL OF ENGINEERING AND MANAGEMENT

**KAMMAVARI SANGHAM (R) 1952**  
**K. S. GROUP OF INSTITUTIONS**



## **K. S. SCHOOL OF ENGINEERING AND MANAGEMENT**

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC)  
No.15, Mallasandra off. Kanakapura Road, Bengaluru-560109

**AICTE - ATAL SPONSORED SIX DAYS ONLINE  
FACULTY DEVELOPMENT PROGRAM ON**

# **"NANOMATERIALS & ENERGY STORAGE-SUSTAINABLE FUTURE"**

**03<sup>rd</sup> TO 08<sup>th</sup> FEBRUARY 2025**

**Organized by**

**Department of Physics**

**In association with**

**All India Council for Technical Education**

**(AICTE-ATAL Scheme)**

**Government of India, New Delhi**



**INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Ministry of HRD Initiative)



## Nanomaterial and Energy storage - Sustainable Future Online FDP

ATAL Online Faculty Development Program on Nanomaterial and Energy Storage - Sustainable Future Six-days AICTE-ATAL sponsored online FDP was conducted from 3rd to 8th February 2025 in which around 130 participants from different parts of the country participated

The speakers for the Six-Days Online FDP on "Nanomaterial and Energy storage - Sustainable Future" were



### DR. K C VORA

Designation & Organization: Professor & Former Sr. Dy Director at ARAI  
Years of Exp: 20yrs  
Topic: Transition from CNG to Hydrogen and its Storage for Sustainable Mobility, EV and Batteries for Energy Storage



### DR. M.V. REDDY

Designation & Organization: Professor and Scientist, National University Singapore  
Years of Exp: 20yrs  
Topic: Advances in Nanomaterials for Energy Storage and Sustainability



### DR. RAJAN JOSE

Designation & Organization: Professor & Ming Chi University of Technology, New Taipei City, Taiwan  
Years of Exp: 25yrs  
Topic: Sustainable Nanomaterials for Renewable Energy Storage Devices



### DR. PRASENJIT DEY

Designation & Organization: Assistant Professor, NIT, GOA  
Years of Exp: 10yrs  
Topic: Multi-Phase Flow, Micro & Nano heat transfer



**MR. M N MURTHY**

Designation & Organization: Principal /Director  
& National power institute New Delhi

Years of Exp: 30yrs

Topic: Energy storage & Smart grid



**MS. TILOTTAMA SHRINIVASA**

Designation & Organization: Director,  
peach-eng.com

Years of Exp: 20yrs

Topic: Biomass for Sustainable Development



**DR. SOMNATH SENGUPTA**

Designation & Organization: Advanced  
Technology Development Centre, IIT  
Kharagpur, India

Years of Exp: 10yrs

Topic: Modeling, Simulation, Energy  
Management



**DR. R. THIRUMALESWARA NAIK**

Designation & Organization: Principal, Research  
Scientist, IISc, Bengaluru

Years of Exp: 15yrs

Topic: Sustainable Bio Fuels in IC Engines



**DR NAGANA GOWDA**

Designation & Organization: Former Board of Director, Karnataka Renewable Energy Development LTD.

Years of Exp: 35yrs

Topic: Renewable energy and Energy Conservation



**MS. TILOTTAMA SHRINIVASA**

Designation & Organization: Director, peach-eng.com

Years of Exp: 20yrs

Topic: Biomass for Sustainable Development



**DR D V SIVA KRISHNA RAO K**

Designation & Organization: NIT, Tiruchirappalli

Years of Exp: 10yrs

Topic: Electric Vehicles and Smart Grid Technologies



**DR. ESWARMOORTHY MUTHUSAMY**

Designation & Organization: Professor & Shri Mata Vaishno Devi University Katra, Jammu and Kashmir

Years of Exp: 15yrs

Topic: Clean Energy Conversion Technologies



## Schedule of the Online FDP

ATAL Online 6 Day Faculty Development Programs 2024-25 Schedule

FDP Thrust Area: Energy, Sustainability & Climate Change  
FDP Title: "Nanomaterial & Energy Storage-Sustainable Future"  
Start Date: 03/02/2025  
End Date: 08/02/2025

End Date: 08/02/2023					
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
6:00PM to 6:30PM <b>Inaugural Session</b> The online FDP will be inaugurated by Dr. Nagana Gowda Former Board of Director Karnataka Renewable Energy Development Ltd. with a key note speaker on <b>Importance of Nanomaterials in Energy Sector</b> . Experience:35 yrs	6:00PM to 7:30PM <b>Session 3</b> <b>Topic: Sustainable Nanomaterials for Renewable Energy Storage Devices</b> Name of the Expert: Dr. Rajan Jose Designation & Organization: Professor & Ming Chi University of Technology, New Taipei City, Taiwan Years of Exp: 25 yrs	6:00PM to 7:30PM <b>Session 5</b> <b>Topic: Energy storage &amp; Smart grid</b> Name of the Expert: Mr. M N Murtly Designation & Organization: Principal /Director & National power institute New Delhi Years of Exp:30 yrs	6:00PM to 7:30PM <b>Session 7</b> <b>Topic: Biomass for Sustainable Development</b> Name of the Expert: Tilotama Shrinivasa Designation & Organization: Director, peach-eng.com Years of Exp:20 yrs	6:00PM to 7:30PM <b>Session 9</b> <b>Topic: Renewable energy and Energy Conservation</b> Dr. Nagana Gowda Former Board of Director Karnataka Renewable Energy Development Ltd. with a key note speaker on <b>Importance of Nanomaterials in Energy Sector</b> . Experience:35 yrs	2:00PM to 3:30PM <b>Session 11</b> <b>Topic: Clean Energy Conversion Technologies</b> Name of the Expert: Dr. Eswarmoorthy Muthusam Designation & Organization: Professor & Shri Mata Vaishno Devi University Katra, Jammu and Kashmir Years of Exp:15 yrs
6:30PM to 8:00PM <b>Session 1</b> <b>Topic: Transition from CNG to Hydrogen and its Storage for Sustainable Mobility</b> Name of the Expert: Dr. K C Vora Designation & Organization:Professor & Former Sr. Dy Director at ARAI Years of Exp:20yrs	7:30PM to 9:00PM <b>Session 4</b> <b>Topic: Multi-Phase Flow</b> Name of the Expert Dr. Prasennjit Dey Designation & Organization: Assistant Professor, NIT, GOA Years of Exp:10 yrs	7:30PM to 9:00PM <b>Session 6</b> <b>Topic: Modeling, Simulation, Energy Management</b> Name of the Expert: Dr. Somnath Sengupta Designation & Organization: Advanced Technology Development Centre, IIT Kharagpur, India Years of Exp:10 yrs	7:30PM to 9:00PM <b>Session 8</b> <b>Topic: Sustainable Bio Fuels in IC Engines</b> Name of the Expert: Dr. R. Thirumaleswara Naik Designation & Organization: Principal, Research Scientist, IISc, Bengaluru Years of Exp:15 yrs	7:30PM to 9:00PM <b>Session 10</b> <b>Topic: Electric Vehicles and Smart Grid Technologies</b> Name of the Expert: Dr D V Siva Krishna Rao K Designation & Organization: NIT,Thiruchirappalli Years of Exp: 10 yrs	3:30PM to 5:00PM <b>Session 12</b> <b>Topic: EV and Batteries for Energy Storage</b> Name of the Expert: Dr. K C Vora Designation & Organization: Professor & Former Sr. Dy Director at ARAI Years of Exp:20yrs
8:00PM to 9:30PM <b>Session 2</b> <b>Topic: Advances in materials for Energy Storage and Sustainability</b> Expert: Dr. M.V. Reddy Designation & Organization: Professor and Scientist, National University Singapore Years of Exp:15 yrs					5:00PM to 6:30PM <b>Session 13</b> <b>Topic: Micro and Nano Heat Transfer.</b> Name of the Expert: Dr. Prasennjit Dey Designation & Organization: Assistant Professor, NIT, GOA Years of Exp:10 yrs
					6:30PM to 7:30PM <b>Online test &amp; feedback</b> 7:30PM to 8:00PM <b>Valedictory Session</b>



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**DEPARTMENT OF PHYSICS**

IN ASSOCIATION WITH

**K. S. RESEARCH AND INNOVATION FOUNDATION**

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**“NANOMATERIAL & ENERGY  
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FUTURE”**



03<sup>rd</sup> to 08<sup>th</sup> February 2025

6:00pm to 9:00pm

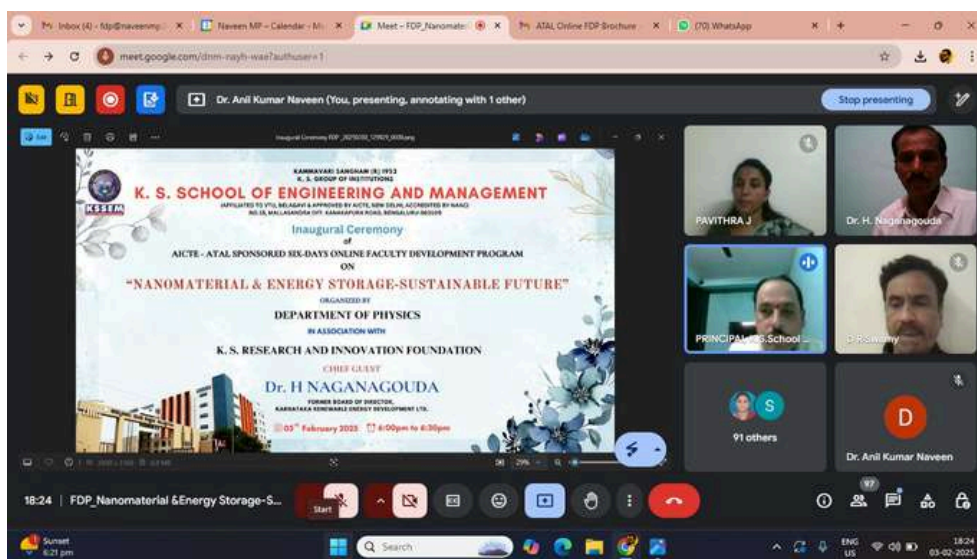
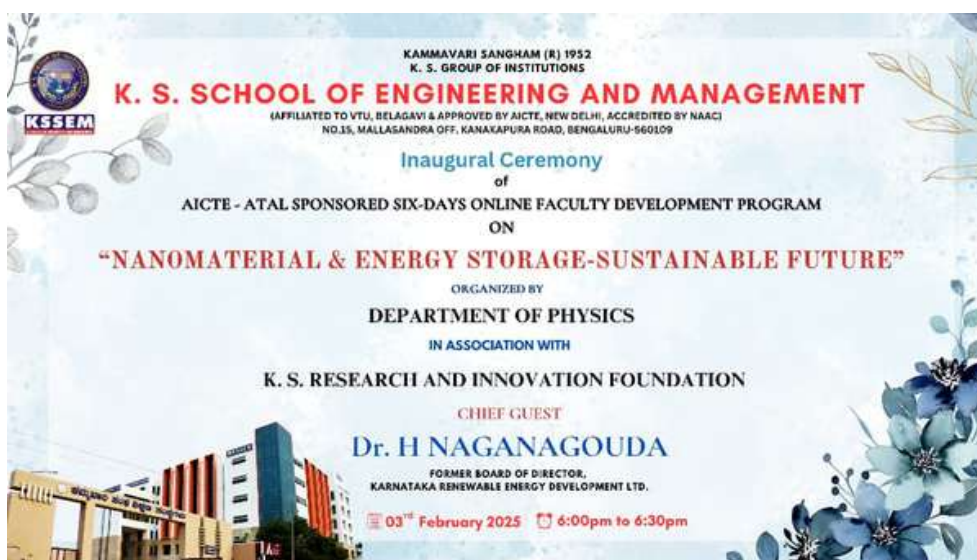





**Co-ordinators**  
Prof. Pavithra J  
Prof. Keerthi A

## Report Of Online Faculty Development Program

The program was inaugurated by Dr. H. Nagana Gowda, Former Board of Director, Karnataka Renewable Energy Development Ltd. He gave an introductory note on Importance of Nanomaterials in Energy Sector. Following the inaugural speech, Dr. K. Rama Narasimha, Principal of K.S. School of Engineering and Management, delivered an introductory talk by welcoming the delegates and participants to the FDP. Dr Swamy, Executive Director KSRIIF, gave an insight on the importance of energy storage devices and encouraged to acquire projects related to the same under recognized bodies.



**Day-1: 03-02-2025**

K. S. School of Engineering and Management & Department of Physics would like to extend our gratitude to Dr. Kamalkishore Vora, Professor of Practice at Chikara University & B V Raju Institute of Technology, and Co-Founder of Gudlyf Mobility Pvt Ltd, for his insightful presentation on “Transition from CNG to Hydrogen and its Storage for Sustainable Mobility.” His deep expertise has significantly enriched our understanding of this important and timely topic for sustainable mobility. We're grateful for the opportunity to learn from such an industry expert.

We extend our sincere thanks to Dr. M. V. Reddy, Professor and Scientist at the National University of Singapore, for his enlightening presentation on “Advances in Nanomaterials for Energy Storage and Sustainability.” His groundbreaking research and expertise are playing a key role in shaping the future of clean energy and technology. We truly appreciate the valuable insights shared.

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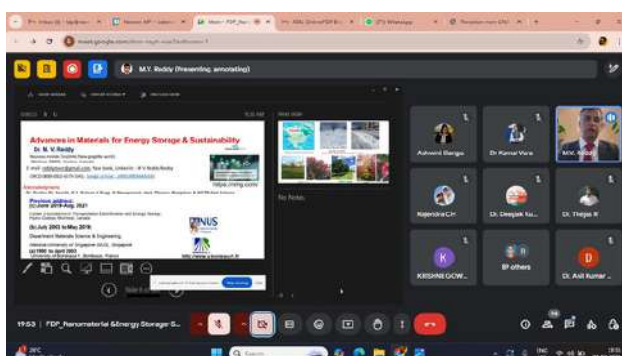
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**Day 1 : 03/02/2025**

**Dr. K C Vora**  
PROFESSOR & FORMER SR. DY DIRECTOR AT ARAI  
Topic : "Transition from CNG to Hydrogen and its Storage for Sustainable Mobility"  
6:30pm to 8:00pm

**Dr. M V Reddy**  
PROFESSOR AND SCIENTIST, NATIONAL UNIVERSITY SINGAPORE  
Topic : "Advances in Nanomaterials for Energy Storage and Sustainability"  
8:00pm to 9:30pm





### Day-2: 04-02-2025

Dr. Rajan Jose delivered an insightful presentation on "Sustainable Nanomaterials for Renewable Energy Storage Devices," providing a deeper understanding of the potential of nanomaterials in advancing renewable energy storage solutions.

Dr. Prasenjit Dey presented on "Multi-Phase Flow," offering valuable insights into the complexities and applications of multi-phase flow in various fields.

The poster is for a six-day online faculty development program. At the top, it lists the affiliations: KAMMAVARI SANGHAM (R) 1952, K. S. GROUP OF INSTITUTIONS, and K. S. SCHOOL OF ENGINEERING AND MANAGEMENT. It mentions accreditation by AICTE and NAAC. The program is organized by the Department of Physics, K. S. Research and Innovation Foundation. The event is for Day 2 on 04/02/2025, from 6:00pm to 7:30pm. Two speakers are featured: Dr. Rajan Jose, Professor at Ming Chi University of Technology, Taiwan, presenting on "Sustainable Nanomaterials for Renewable Energy Storage Devices"; and Dr. Prasenjit Dey, Assistant Professor at NIT, Goa, presenting on "Multi-Phase Flow". Logos for KSSEM, AICTE, and KSRIFF are at the bottom.

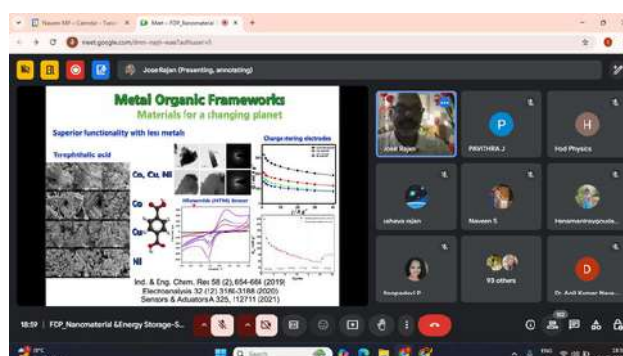
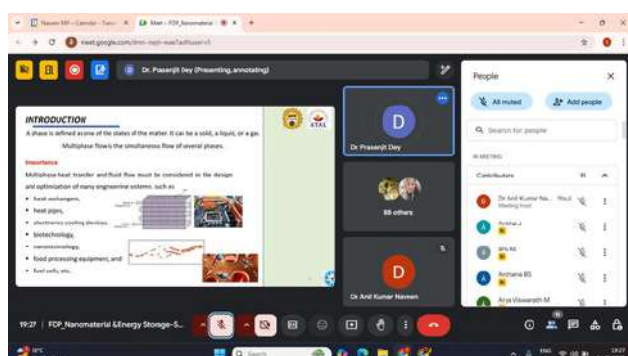
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**Day 2 : 04/02/2025**

**Dr. Rajan Jose**  
PROFESSOR & MING CHI UNIVERSITY OF TECHNOLOGY,  
NEW TAIPEI CITY, TAIWAN  
Topic : "Sustainable Nanomaterials for  
Renewable Energy Storage Devices"  
6:00pm to 7:30pm

**Dr. Prasenjit Dey**  
ASSISTANT PROFESSOR, NIT, GOA  
Topic : "Multi-Phase Flow"  
7:30pm to 9:00pm





### Day-3: 05-02-2025

Mr. Murthy's session on Energy Storage and Smart Grids provided valuable insights into how these innovations are transforming energy management and distribution. With smart grids enhancing efficiency and energy storage systems enabling better integration of renewable energy, the discussion highlighted key advancements shaping the future of energy.

Dr. Sengupta's presentation on Modeling, Simulation, and Energy Management explored the role of advanced technologies in optimizing energy systems. By leveraging modeling and simulation, energy behaviors can be predicted and improved, leading to more efficient and sustainable management solutions. The session emphasized the significance of real-time data and advanced algorithms in developing resilient and cost-effective energy systems.

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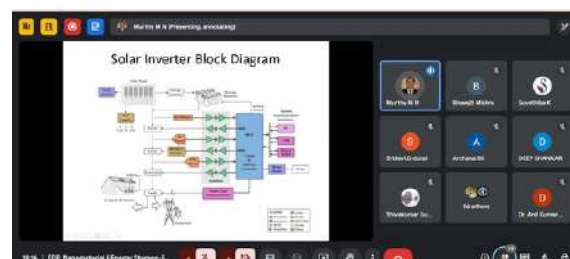
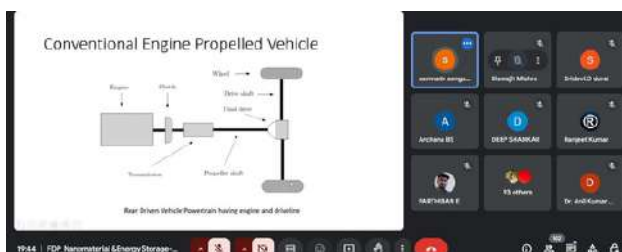
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**Day 3 : 05/02/2025**

**Mr. M N Murthy**  
PRINCIPAL / DIRECTOR & NATIONAL  
POWER INSTITUTE NEW DELHI  
Topic : "Energy storage & Smart grid"  
6:00pm to 7:30pm

**Dr. Somnath Sengupta**  
ADVANCED TECHNOLOGY DEVELOPMENT CENTRE,  
IIT KHARAGPUR, INDIA  
Topic : "Modeling, Simulation,  
Energy Management"  
7:30pm to 9:00pm

Logos: KSSEM, AICTE, ATAL, KSRIF



### Day-4: 06-02-2025

Ms. Tilottama Shrinivasa's presentation on the role of biomass in sustainable development provided valuable insights into its potential as a renewable resource. Biomass plays a crucial role in reducing greenhouse gas emissions, providing alternative energy sources, and minimizing waste. The discussion highlighted how agricultural residues and organic materials can be utilized to create cleaner and more sustainable energy solutions.

Dr. R. Thirumaleswara Naik's session on sustainable biofuels in Internal Combustion (IC) Engines explored the viability of biofuels such as biodiesel and bioethanol as alternatives to traditional fossil fuels. The talk emphasized how these biofuels contribute to lower emissions, improved engine efficiency, and enhanced global energy security.

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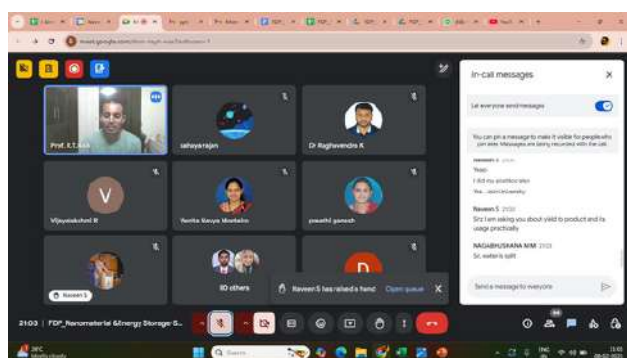
**Day 4 : 06/02/2025**

**Ms. Tilottama Shrinivasa**  
DIRECTOR, PEACH-ENG.COM  
Topic : "Biomass for Sustainable Development "

**Dr. R. Thirumaleswara Naik**  
PRINCIPAL, RESEARCH SCIENTIST, IISC, BENGALURU  
Topic : "Sustainable Bio Fuels in IC Engines "

6:00pm to 7:30pm 7:30pm to 9:00pm

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### Day-5: 07-02-2025

Dr. H. Naganagouda's session on Renewable Energy and Energy Conservation provided valuable insights into the transition toward sustainable energy sources. The discussion highlighted the significance of solar, wind, and hydropower, along with energy-efficient practices to mitigate climate change and reduce environmental impact. The session reinforced the crucial role of sustainable energy solutions in building a greener future.

Dr. Siva Krishna Rao K's presentation explored the advancements in Electric Vehicles (EVs) and Smart Grid Technologies. The session focused on the transformative potential of EVs in reducing carbon emissions and promoting cleaner transportation. Additionally, the discussion covered how smart grids enhance electricity distribution, improve grid efficiency, and support the seamless integration of renewable energy into the power system.

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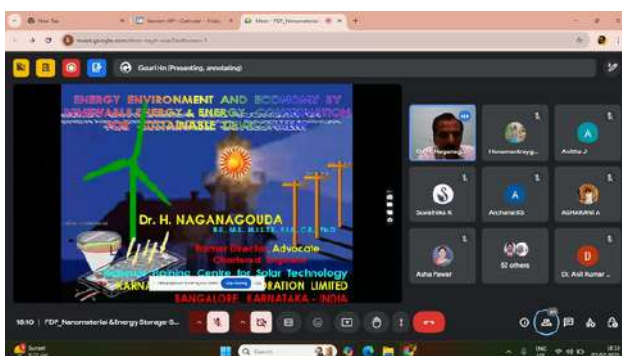
**Day 5 : 07/02/2025**

**Dr. Nagana Gowda**  
FORMER BOARD OF DIRECTOR KARNATAKA  
RENEWABLE ENERGY DEVELOPMENT LTD.  
Topic : "Renewable energy and  
Energy Conservation "

**Dr. D V Siva Krishna Rao K**  
NIT, TIRUCHIRAPPALLI  
Topic : "Electric Vehicles and  
Smart Grid Technologies "

6:00pm to 7:30pm 7:30pm to 9:00pm

Logos: KSSEM, AICTE, ATAL, KSRIF





**Day-6: 08-02-2025**

Dr. Eswamoorthy Muthusamy's session on Clean Energy Conversion Technologies provided in-depth insights into innovative methods for harnessing and utilizing clean energy efficiently. The discussion explored advancements that enhance sustainability and reduce environmental impact.

Dr. K. C. Vora's presentation on Electric Vehicles (EVs) and Batteries for Energy Storage highlighted the critical role of battery technology in improving EV performance and energy storage solutions. The session emphasized advancements in battery efficiency, charging infrastructure, and the integration of renewable energy.

Dr. Prasenjit Dey's talk on Multi-Phase Flow, Micro & Nano Heat Transfer covered the complexities of fluid dynamics at microscopic levels. The discussion provided valuable insights into how these principles are applied in various engineering and industrial applications.

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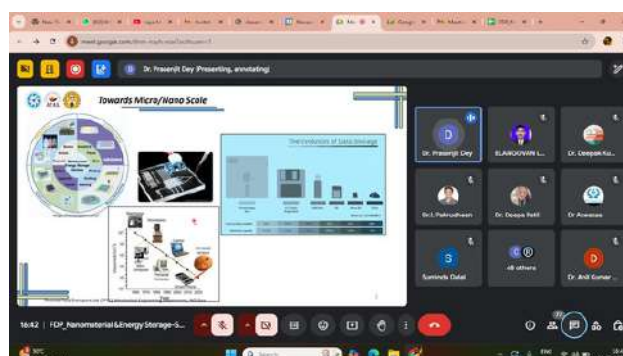
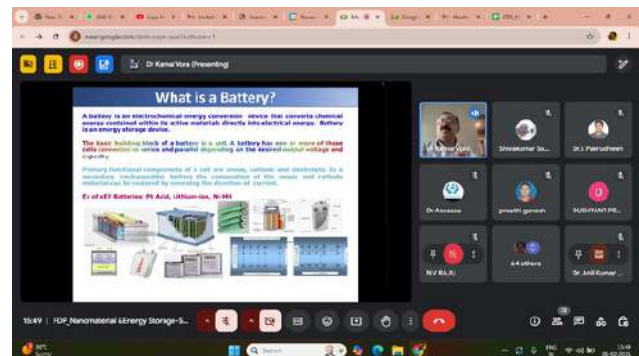
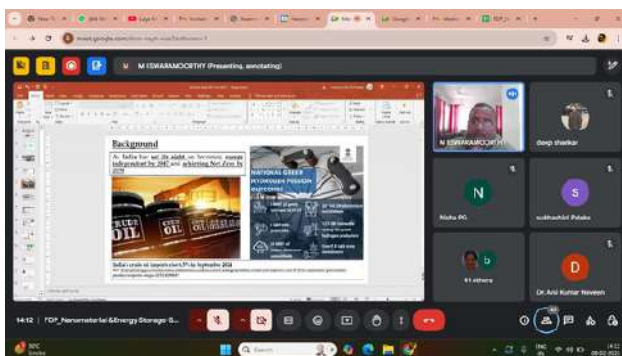
**Day 6 : 08/02/2025**

**Dr. Eswamoorthy Muthusamy**  
PROFESSOR & DEPUTY CHIEF, DEPARTMENT OF PHYSICS, JAMNATI AND KADRI  
Topic: "Clean Energy Conversion Technologies"  
2:00pm to 3:30pm

**Dr. K. C. Vora**  
PROFESSOR & FORMER SR. BY DIRECTOR AT ARAI  
Topic: "EV and Batteries for Energy Storage"  
3:30pm to 4:30pm

**Dr. Prasenjit Dey**  
ASSISTANT PROFESSOR, MIT, SOA  
Topic: "Micro and Nano Heat Transfer"  
4:30pm to 6:00pm

Logos: KSSEM, AICTE, ATAL, KSRIF





## Participants List

Name	Email	Phone	Institute Name
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Miss GOWSALYA M	gowsalyamarappan14@gmail.com	9385537907	Anna university, CEG campus, chennai
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Mr. Raghunath s	raghunaths86@gmail.com	9900645853	Nagarjuna college of Engineering and technology, Bengaluru.
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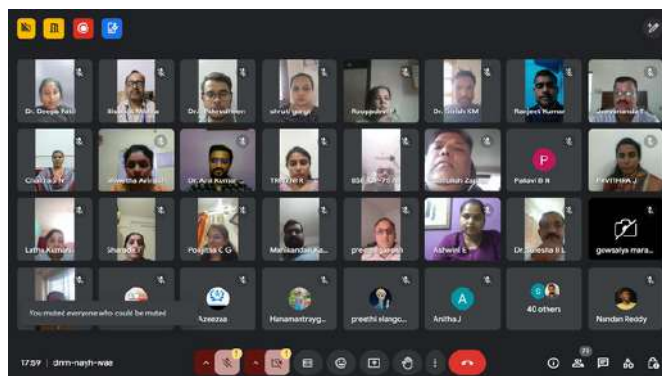
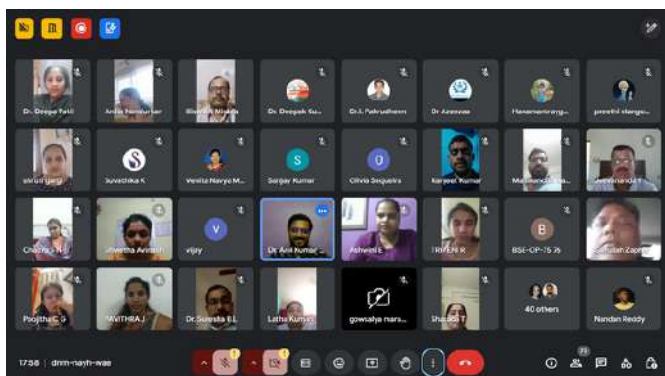
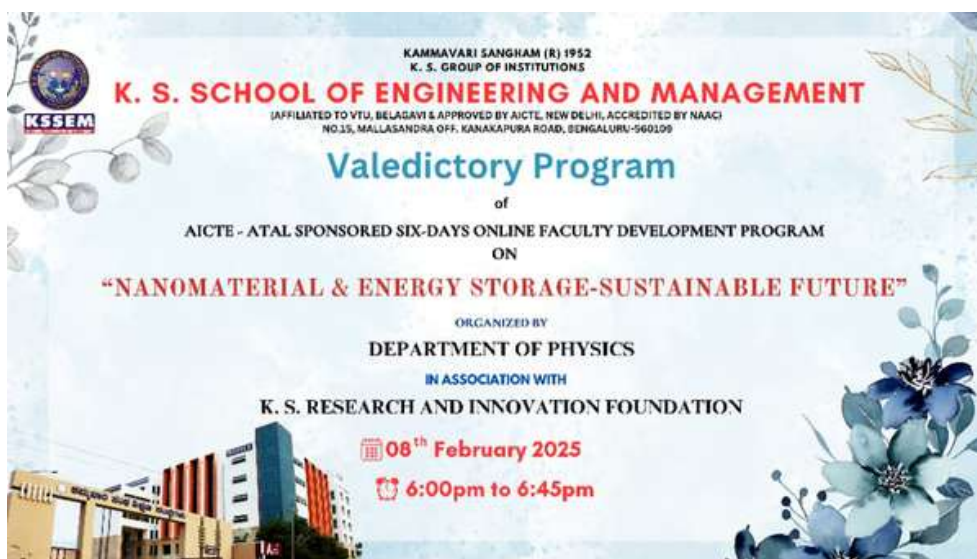


## Valedictory Program

The Valedictory Program of the AICTE-ATAL Sponsored Faculty Development Program on Nanomaterial & Energy Storage - Sustainable Future concluded successfully, providing participants with valuable knowledge and innovative ideas. Organized by the Department of Physics in association with K. S. Research and Innovation Foundation, the program brought together distinguished experts, researchers, and academicians to explore advancements in nanomaterials and sustainable energy storage technologies.

Over the course of the program, participants engaged in in-depth discussions on cutting-edge research, applications, and future trends in the field. The interactive sessions fostered knowledge exchange, allowing attendees to gain deeper insights into the latest developments in energy storage, material synthesis, and environmental sustainability.

The event also served as a platform for networking and collaboration, encouraging interdisciplinary research and industry-academia partnerships. With thought-provoking presentations and hands-on sessions, the program successfully contributed to capacity building and skill enhancement in this critical area of science and technology.



## Feedback from the Participants

