

A.J. INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust ®

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Department of Mechanical Engineering



FIVE DAY FDP ON RECENT DEVELOPMENTS IN RENEWABLE ENERGY TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT

12th – 16th JULY 2021

REPORT



The FDP conducted in online mode. The registration of participants has been facilitated through google form and the programme had conducted over online platform – Google meet and Youtube (<https://meet.google.com/ryy-bsqw-dcb>,

Youtube links:

https://youtu.be/KShoWU_db6k day -1

<https://youtu.be/0pxqexJGeQc> day -2

<https://youtu.be/zHyxkgAaO5A> day -4

https://youtu.be/M_NaYFPa9Ys Day-5).

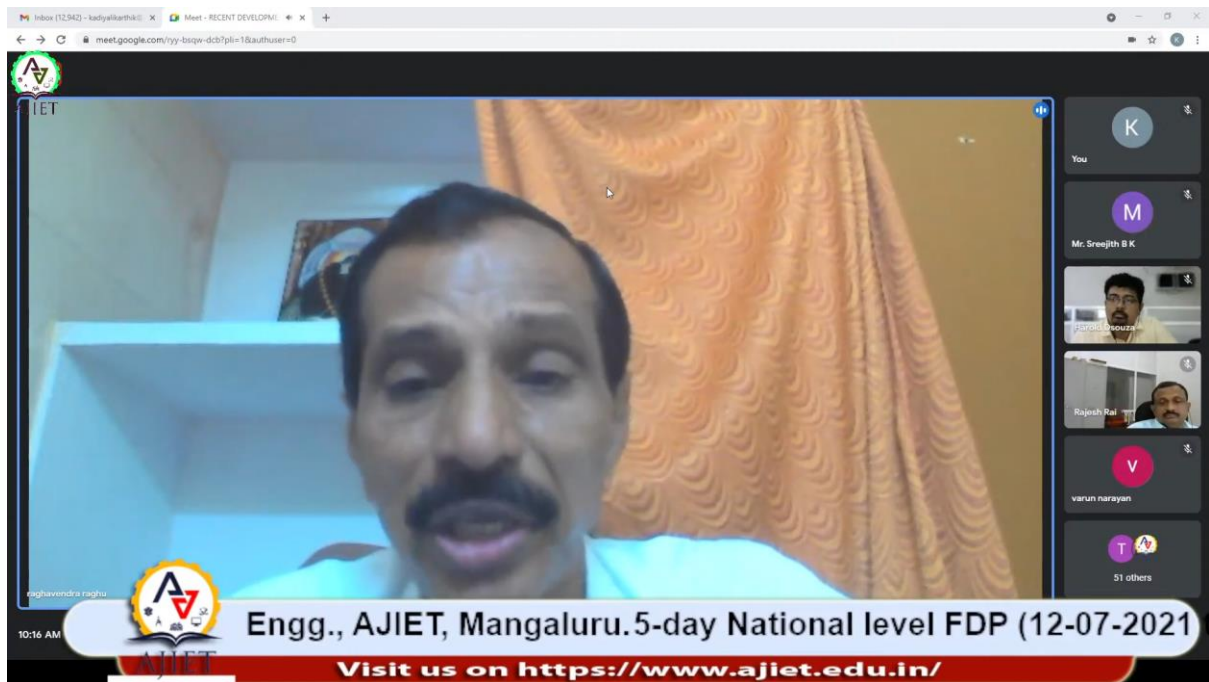
DAY 12 – 16th July 2021

The FDP started at 10:00 AM with inaugural session. The program started with welcome speech by Dr. Rajesh Rai P, HOD- Mechanical Engineering Department, AJIET by inviting the gathering which includes around 56 external participants from various engineering colleges from various states of India followed by Guest introduction by Mr. Prasad B G to introduce our Chief Guest Dr. NaganaGouda, KPCL, Bangalore to our esteemed audience. Dr. NaganaGouda gave the inaugural address and shared his valuable thought on renewable energy and recent development in globally.

Dr. Shantharama Rai C., Principal-AJIET, gave presidential address and explained the significance of the FDP. The session was followed by Vote of thanks by Dr. Sreejith B K, Convener of the FDP.

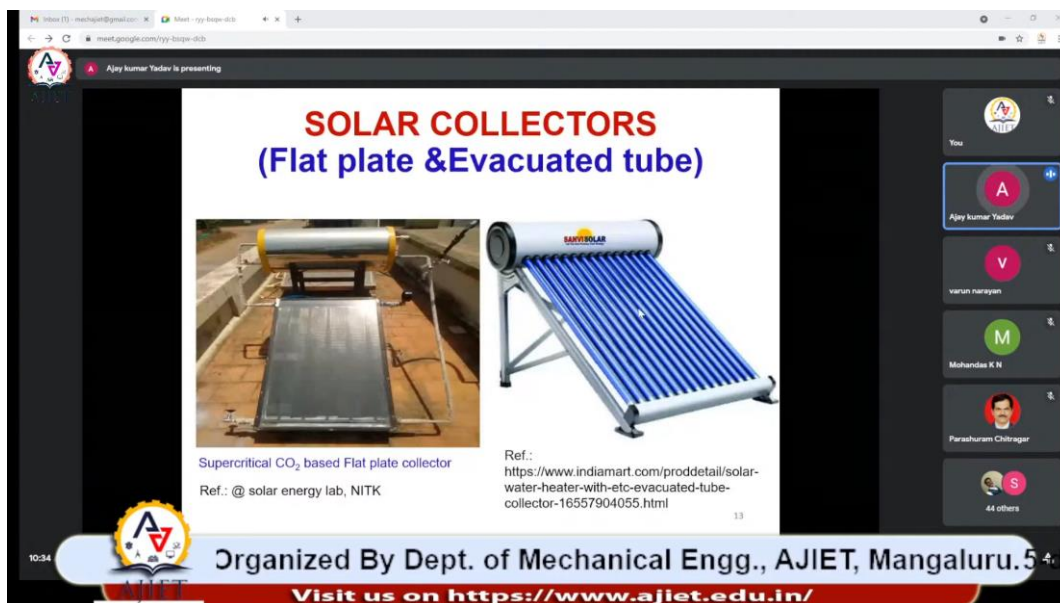
Day 1:

Dr. NaganaGouda, KPCL, Bangalore delivered the keynote address on *Renewable Energy and Energy conservation for Sustainable Development*. In this session participants were learned the different fields of renewable energy, its current status and future which are very much trending aspects of mechanical engineering field. More than 64 participants were witnessed the session. The session was concluded with the vote of thanks by Mr. Harold D Souza.



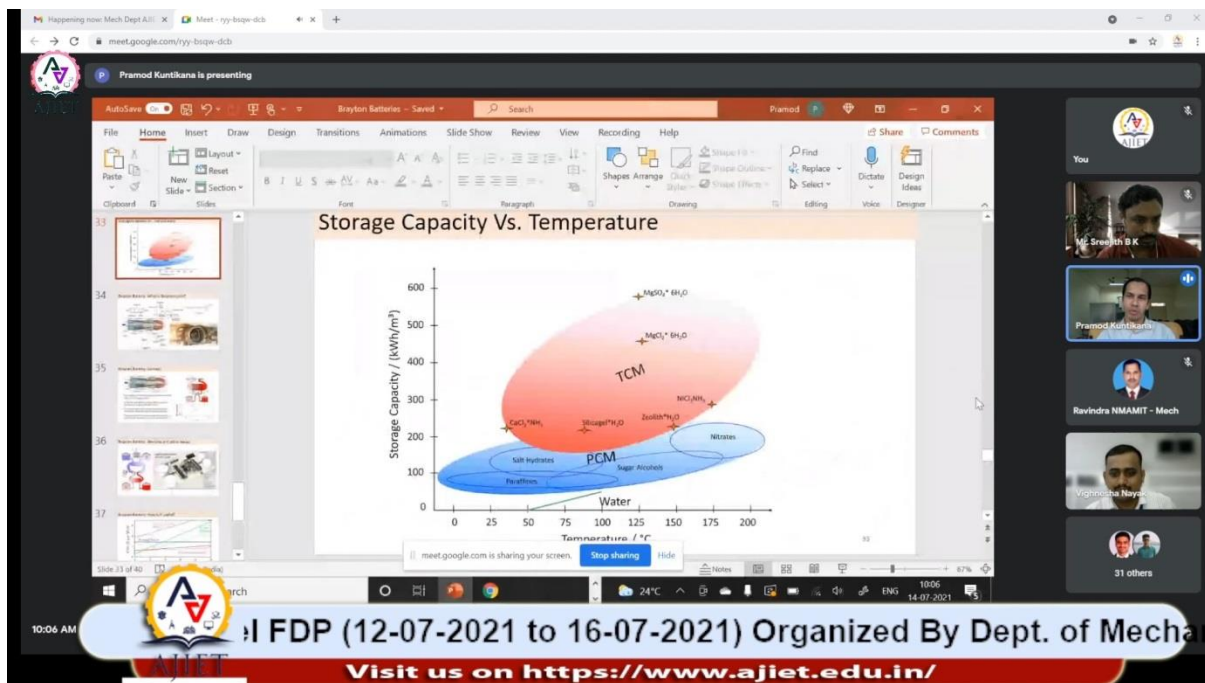
Day 2:

Day 2 started at 10:00 AM with welcome speech by Mr. Sunil Kumar and introduced the guest- Dr. Ajay Kumar Yadav, Asst. Prof. NITK, Surathkal. . Dr. Ajay Kumar Yadav gave a lecture on *Ultra supercritical CO₂ based gas turbine power plant using concentrated solar thermal collector*. In this session participants were learned the application of solar energy for the power plant using CO₂ as working fluid. The session gave an insight into the CO₂ natural convention loop and its industrial application. There were around 56 participant joined the session. The session was followed by question answer session. The vote of thanks had given by Mr. Prakyath.



Day 3:

Day 3 started at 10:00 AM with welcome speech by Dr. Vignesh Nayak and introduced the guest- Dr. Pramod K, Asst. Prof. IIT, Palakad. . Dr. Pramod K gave a lecture on **Brayton battery: A Thermal Energy based storage system for renewable energy applications**. In this session participants were learned the novel technology for power storage. The system can aided by any sort of renewable source of energy depends on the availability. The session gave an insight into the Bryoton battery and persisting challenges. There were around 47 participant joined the session. The session was followed by question answer session. The vote of thanks had given by Mr. Nithin Shet.



Day 4:

Day 4 started at 10:00 AM with welcome speech by Mr. Karthik A V and introduced the guest- Dr. Sheik Saboor, Asst. Prof. VIT, Vellur. Dr. Sheik Saboor gave a lecture on **Innovative Building Envelope Solutions for Low Energy Buildings**. In this session participants were learned the recent technologies in buildings material to use sunlight as source of energy for heating and lighting purpose. There were around 52 participant joined the session. The session was followed by question answer session. The vote of thanks had given by Dr. Sreejith B K.

Happening now Mech Dept AJIET X Meet - ryy-biqw-dcb

meet.google.com/ryy-biqw-dcb

Dr. Shaik Saboor is presenting

5.) Earth cooling:

Blower Air Inlet Air Outlet House
Ground Pipe
Hot air exit Ambient air inlet Filter
Air inlet Tunnel Fan

Fig .15 Earth-air heat exchanger

10:51 AM | Dept. of Mechanical Engg., AJIET, Mangaluru. 5-day National I
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Day 5:

Day 5 started at 10:00 AM with welcome speech by Mr. Prasad and introduced the guest- Dr. ShamSundar S, Head, NIE-Centre for Renewable and Sustainable Technologies, Mysuru. Dr. ShamSundar gave a talk on **Renewable Energy and Sustainable technology for Houses and Institution- Case Study**. In this session participants were learned the conversion technologies for bio waste to energy and rain water harvesting methods. There were around 58 participant joined the session. The session was followed by question answer session. The vote of thanks had given by Mr. Prasad.

Happening now Mech Dept AJIET X Meet - ryy-biqw-dcb

meet.google.com/ryy-biqw-dcb

shamsundar s is presenting

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Soil and Health 9-88135200

Aerobic composters for Home/Residence

7/16/2021 By :Shamsundar, Head ,NIE-CREST, NIE, Mysore.

10:20 AM | tional level FDP (12-07-2021 to 16-07-2021) Organized By Dep
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The session followed with valedictory function started at 11.05 AM. The program started with speech by Dr. Rajesh Rai P, HOD- Mechanical Engineering Department, AJIET followed by presidential address by Principal, Dr. Shantharama Rai C. The program came to end with the vote of thanks given by Dr. Sreejith B K , Convener of the FDP.

Dr. Sreejith B K, Mr. Prashantha D A
Convener

Dr. Rajesh Rai P
Head of the Department