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COLLEGE OF ENGINEERING
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Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai



A REPORT FOR GUEST LECTURE

ON

RENEWABLE ENERGY SOURCES

20th OCTOBER 2022



Guest Lectures

Organized by

Department of Electronics and Communication Engineering

KINGS COLLEGE OF ENGINEERING, PUNALKULAM

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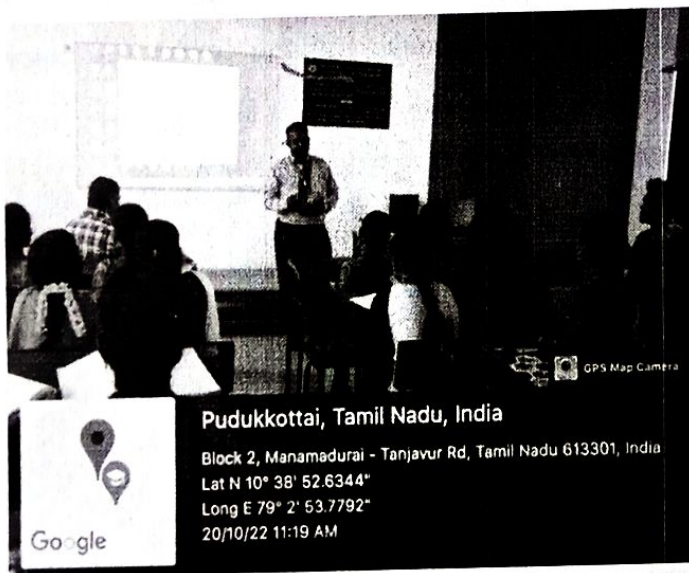
Phone : 04362-282474, 282395 Website : www.kingsindia.net

Name of the Event : **GUEST LECTURE ON RENEWABLE ENERGY SOURCES**
Department : **ECE**
Number of Beneficiaries : **45**
Name of the Resource Person : **Mr.J.Arockia Raj,**
Assistant Professor /EEE,
Kings College of Engineering, Punalkulam
Date : **20.10.2022**

OBJECTIVE:

- To have an interactive session for students with professional who can share their valuable knowledge and experience.
- An expert lecture helps the students to develop the multiple skills like critical thinking, reasoning, planning for the future, etc.
- Students get new perspectives and opinions that are often missed in a regular class.

ABOUT THE GUEST LECTURE:



Welcome Address by Mr.P.Rajapirian, AP/ECE



Resource person Mr.J.Arokiaraj, AP/EEE delivering the lecture on RES.

He gave an excellent talk on “**Renewable Energy Sources**” through the following sub topics.

- ✓ Solar Energy
- ✓ Wind Energy
- ✓ Tidal Energy
- ✓ Wave Energy
- ✓ Bio Mass

➤ **Solar Energy:**

He explained clearly about the concept of solar power generation, photovoltaic cell and how much amount of solar energy utilized in India. He explained about the environmental impact created to get solar energy. What are all the measurements involved to measure the solar energy etc. He gave a very clear idea about these concepts with video clippings.

➤ **Wind Energy:**

In this concept, he explained about the structure of wind machine and the type of energy generated from wind machine, its types etc. He also explained about the selection of site to erect the wind machine, operation and principle of wind machine.

➤ **Tidal Energy:**

In this topic, he gave an overview about its arrangement and How to create the Tidal energy? He also explained about the single basin arrangement and double basin arrangement also about the energy utilization technique.

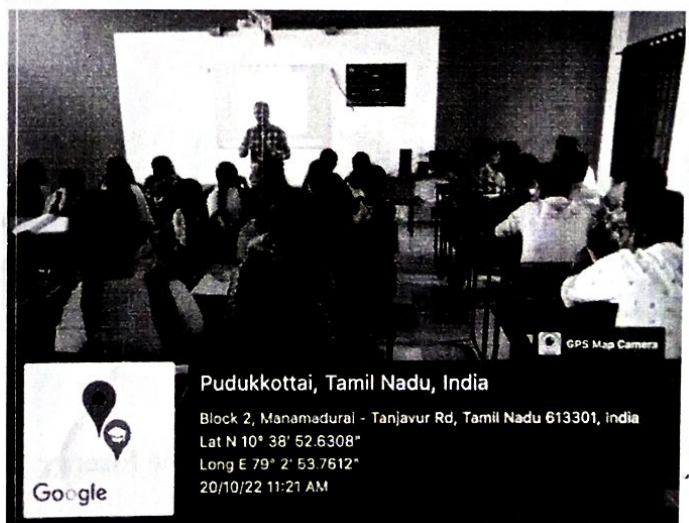
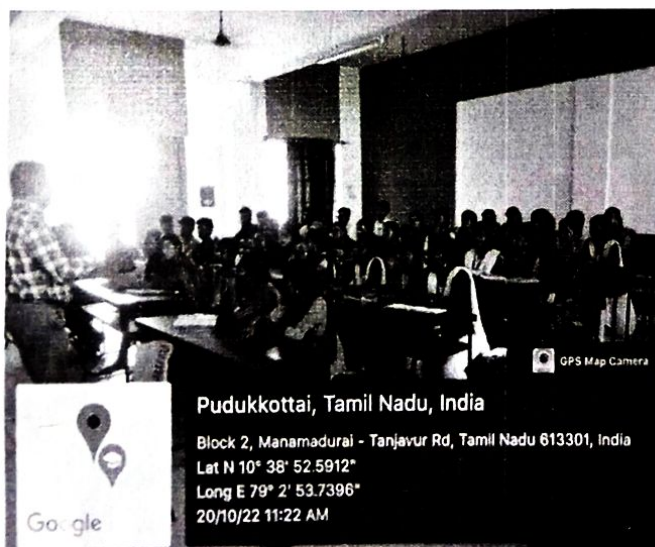
➤ **Wave Energy:**

He gave a nice explanation through a video about this Wave energy concept which is one of the proposed technique.

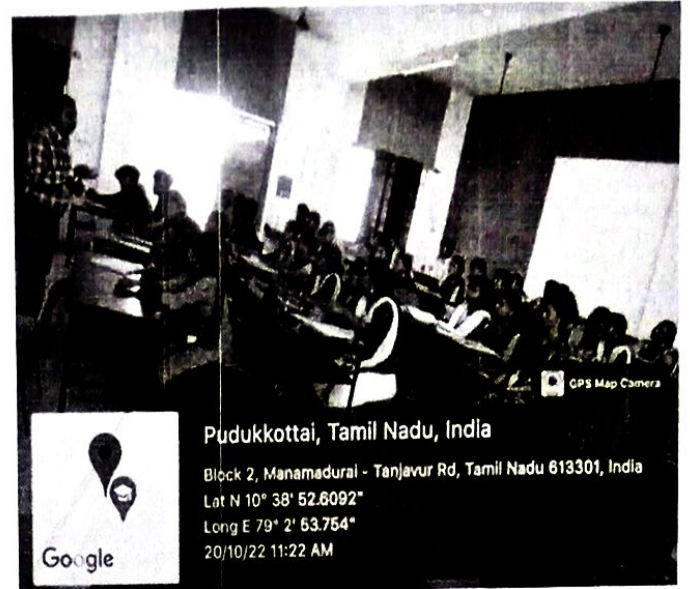
➤ **Bio Mass:**

In this topic, he explained clearly about the types of Biomass and the convenient place for Biomass setup etc.

Finally he demonstrated the above mentioned topics with some videos.



Students Eagerly listening the lecture on Renewable Energy Sources



Snapshots of the Guest lecture on Renewable Energy Sources

OUTCOME:

- Students gained some practical knowledge related to the theoretical concept. They have gained knowledge about the types of energy utilized in India.
- Series of such session fetch an extra enthusiasm to the students to have practical knowledge about the subject.

[Handwritten Signature]
9/11/2022
Coordinator

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9/11/2022
HOD/ECE

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Principal

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