



**NATIONAL LEVEL TECHNICAL SYMPOSIUM**



# WEBINARS

**Lecture theme**

**What's you can expect.....**

**WASTE HEAT RECOVERY SYSTEM**

1. Introduction
2. Why waste heat recover is necessary
3. Types of waste heat recovery system
4. Industry application
5. Q&A

**IMPLEMENTATION OF FEA IN ANSYS**

1. Introduction & Procedure
2. Types of Analysis
3. Types of Elements
4. Material Models
5. Demo session on 1D & 2D problems
6. Q&A

**FUEL CELLS**

1. Introduction
2. Construction & Working of fuel cells
3. Types of Fuel cells
4. Advantages & Disadvantages
5. Industrial applications
6. Future scope & Advancement in Fuel cells
7. Q&A

**ROBOT KINEMATICS**

1. Introduction
2. Need of kinematics in robotics
3. Kinematics - Terminology
4. Forward Kinematics
5. Inverse Kinematics
6. Denavit-Hartenber (DH) Parameters
7. MATLAB/RoboAnalyzer®
8. Summary

**CHALLENGES OF EV**

1. Introduction
2. Performance of Electric Vehicles
3. Charging infrastructure
4. Thermal management of Battery concern
5. Environmental concern

**IMPROVEMENT PERFORMANCE OF SOLAR PHOTOVOLTAIC MODULE BY COOLING METHODS**

1. Introduction to solar cell & solar energy
2. Factors affecting solar cell
3. Importance of cooling the solar cell
4. Various cooling methods
5. Cooling of standalone rooftop SPV modules
6. Active & Passive cooling.
7. Results & Discussion.

**FOR FURTHER QUERIES :**

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ENGINEERING AND TECHNOLOGY, KARAİKUDI.

DEPARTMENT OF MECHANICAL ENGINEERING



## SHACKLES<sub>2K23</sub>

### Webinars on

**APR 07**

IMPROVEMENT PERFORMANCE OF SOLAR PHOTOVOLTAIC MODULES  
BY COOLING METHOD  
By Dr. K. Ramanathan (Head Of the Department)

WASTE HEAT RECOVERY SYSTEM

By Dr. B. Guruprasad (Assistant Professor)

**APR 03**

**APR 08**

FUEL CELLS  
By Dr. R. Sarala (Associate Professor)

FUTURE CHALLENGES OF ELECTRIC VEHICLES  
By P. Perumal (Assistant Professor)

**APR 04**

**APR 06**

ROBOT KINEMATICS  
By Dr. S. Geetha (Assistant Professor)

IMPLEMENTATION OF FEA IN ANSYS  
By S. Selvaraj (Assistant Professor)

**APR 06**

#### Coordinators

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Live Webinar on



E-certificate  
will be provided

