

Online FDP on "Power Electronic Control in Renewable Energy Applications"

About the course:

The course aims to provide opportunities for the faculty members to explore the application of power electronics in renewable energy technologies. As the environment and its sustainability are of a major concern in the current scenario, the incorporation of renewable energy systems is of utmost importance. The course is designed to provide an idea about the various designs, control and applications of power electronics to the off and on grid renewable energy systems.

Course Outcomes:

- After the completion of this FDP participants will be able to
- Understand various renewable energy systems and their control techniques.
 - Recognize recent developments in design aspects of grid connected inverters.
 - Design and analyze on-board power converters for electric vehicle applications.
 - Understand grid synchronization techniques for grid connected power converters.

Syllabus:

Overview of renewable power generation systems and their control, role of PWM techniques in grid connected inverters, on-board power converters in electric vehicle power train, grid synchronization techniques for grid-connected power converters, design, control and application of renewable energy systems on off and on grid system.

Resource Persons

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University of Houston, USA
2. **Dr. Binoj Kumar**
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5. **Dr. Manoj Kumar**
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One week Online
Faculty Development Programme on
**POWER ELECTRONIC CONTROL
IN RENEWABLE ENERGY
APPLICATIONS**

25th April 2022 - 29th April 2022

Organized by:
DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING

VIMAL JYOTHI ENGINEERING COLLEGE
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