

**Adani Institute of Infrastructure (AII)** established with an objective to provide the youngsters of the nation a platform to be the "Nation Builders". AII was instituted to impart them with requisite skills and training for contributing towards nation building. There are two institutions "Adani Institute of Infrastructure Engineering (AIIE)" and "Adani Institute of Infrastructure Management (AIIM)" functioning under the roof of AII. AIIE is offering three specialized engineering courses named Civil & Infrastructure Engineering, Electrical Engineering and Information & Communication Technology approved by AICTE. The institute aims to provide quality education, research and professional practices that enable the students to become leaders in their professional careers, to pursue excellence in research, and to serve the profession, community and nation.

## Workshop Objective

Power electronics deals with the study of electric power conversion and its control using microelectronics. The major application of power electronics is the control of electric drives. Modelling and simulation are essential ingredients for the analysis and design of power converters and electric drives. The objective of the workshop is to impart an in-depth knowledge in the, selection and design of power converter circuits. This workshop focuses on the modelling and design of advanced power electronic converters for electric motors using **PSIM** and **CYME platform**. During the workshop, the participants will get hands on experience with the above specified software packages. The goal of this workshop is to provide an opportunity to understand the concepts of power electronic systems and design it using appropriate software and impart high end technical inputs for real time applications.

# National Workshop

On

**Power Electronics**

**&**

**Power System Simulation Platform**

**(12th -13th October 2017)**

**Technology Partner**



**Organized by**

**Department of Electrical Engineering  
AIIM, At Shantigram**

# Workshop Agenda

Day	Session	Content
1	Session 1	Introduction of PSIM Simulations with PSIM Basic Module for power conversion equipment designing
	Session 2	Simulations with closed loop systems Simulations with MATLAB Interfacing Simulations with Thermal Module
	Session 3	Simulations with Motor Drives Simulations with Renewable Energy Resources
	Session 4	Simulations with Smart Controls Simulations with Hybrid Electric & Motor Controller design suits Simulations with TI-F28335 DSP Interface
2	Session 1	Introduction of CYME Simulations with Power Flow Module Simulations with Fault Analysis Module Simulations with Voltage Stability Analysis Simulations with Transient Stability Simulations with Dynamic Motor Starting Simulations with Relay Coordination.
	Session 2	Introduction of Power Worlds Simulator Load Flow Simulations Contingency Analysis Fault Analysis Transient Stability Analysis

# Organizing Committee

## Patron

Dr. A.V. Thomas (Director, AII)  
Dr. V. M. Patel (Principal, AIIIE)

## Program Chair

Dr. Kiran Parmar

## Organizing Secretary

Dr. Ajay Kr. Vyas

## Co-Secretary

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Mr. Alok Kumar Singh  
Mr. Pawan Mehta  
Mr. Nikhil Chauhan  
Mr. Jignesh Waykole  
Mr. Dharmik Mehta  
Mr. Rahul Kosty

# Registration

Registration : Mail to [drajayvyas.aiie@gmail.com](mailto:drajayvyas.aiie@gmail.com) or contact to Mr. Jignesh Waykole :09974775839 .Limited seats for III Year (EE) students.