



# POORNIMA

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## COLLEGE OF ENGINEERING

### A report on "Two Week ISTE Workshop on Control Systems"

Duration (2<sup>nd</sup> December to 12<sup>th</sup> December 2014)

A Two Week ISTE workshop on Control systems was successfully organized at Poornima College of Engineering.

In the valedictory function Dr. Om Prakash Sharma, Director, PCE, Mr. Shivraj Sharma HOD, EE, Dr. Ajay Khunteta, Remote Center Coordinator and Shital Shegokar Jangid, Workshop Coordinator along with Faculties of various Engineering colleges were present.

While addressing the gathering, Dr. Om Prakash Sharma thanked all the participants for their presence and interest/ faith shown in Poornima College of Engineering as a remote center for the Workshop.

He further informed and elaborated on the contents thought during two weeks from 2<sup>nd</sup> Decemberto 12<sup>th</sup>December 2014, the course content consist of following topics of subject control systems:

Module 1: Basic Concepts: Introduction and significance of control system; closed and open loop control; Servo and supervisory control; Multi-level (Level (0-3)) etc.

Module 2: Models and response: Brief review of time and frequency domain I/O models for LTI SISO systems. Polezero, degree, order, type. Response computation using discretization of I/O models etc.

Module 3: System Analysis: concept of stability, equilibrium points, types of stability (local/global, asymptotic/uniform/exponential) with examples etc.

Module 4: Control Design: Performance specification, steady state, transient, frequency domain, stability margins, sensitivity and complementary sensitivity etc.

In the Inaugural session brief over view of the subject / contents was elaborated and discussed among all participants by Dr. Om Prakash Sharma. He added that workshop is aimed at enhancing the teaching skills of faculty and colleagues in core subject Control Systems of Engineering. The lecture transmission and live interaction takes place through distance mode using the A-VIEW technology on the Internet to various coordinating remote centers across the country. **Poornima**

**College of Engineering, Jaipur has been operating as remote centre for IIT MHRD Mission since May, 2012 and organizing various activities as directed by IIT BOMBAY.**

**Feedback from the participants:**

This was my first experience of attending workshop 'online'. I found it quite interesting and helpful for my students. These sessions updated my knowledge and gave me confidence in the subject.  
-Mr. Akshay Kumar Mittal, Assistant prof., EE, PCE

Contents were well organized. Practical examples helped to understand the topic very much. I would like to suggest that more lab sessions can be included.  
- Mrs. SmitaPrajapati, Assistant Prof., SKIT, Jaipur

An online workshop on control system was conducted by MHRD, Govt. of India, in collaboration of IIT Kharagpur. In this workshop more than 50 faculty from different engineering colleges attended this. We have got benefited from the mission and found it very useful.  
-Mr. AmbaLalMathur, Assistant Prof., EE, PCE

**Electrical Engineering, IIT Kharagpur, Prof. TapankumarGhoshal, Department of Electrical Engineering, Jadavpur University, Kolkata.**

**Approx. fifty (50) Faculty members from various Engineering Colleges have registered themselves as participants in the nodal center. Mrs. Shital ShegokarJangidproposed a vote of thanks to all present.**

