

## Department of Electronics & Telecommunication Engineering

# Innovative Teaching and Learning in Control System Course

The Control System course has adopted an engaging teaching approach that makes use of SmartBoards to help students understand and apply what they are learning. This approach aims to have students draw the root locus and the bode plot. This real experience makes the learning process more engaging and beneficial.

**Teaching Innovation:** Traditionally, lectures and PowerPoint slides are used to teach students how to plot the root locus and bode plot. Instructors educate students how to draw the Bode plot and Root Locus in a descriptive manner. But here, the emphasis of this method is on learning via doing and observation. It is encouraged to the students to draw it for different systems.

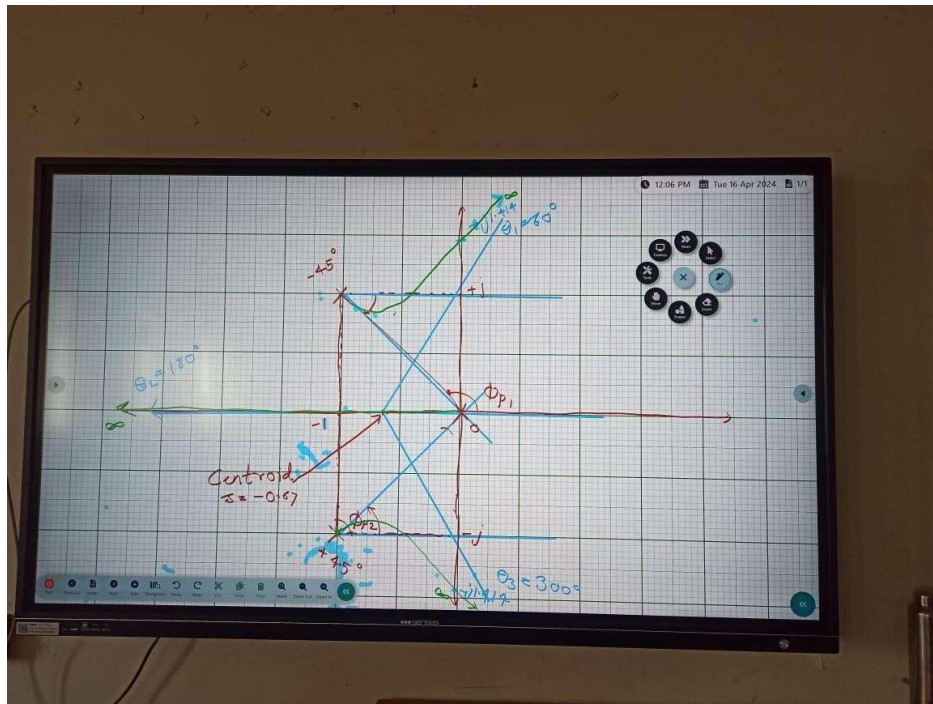
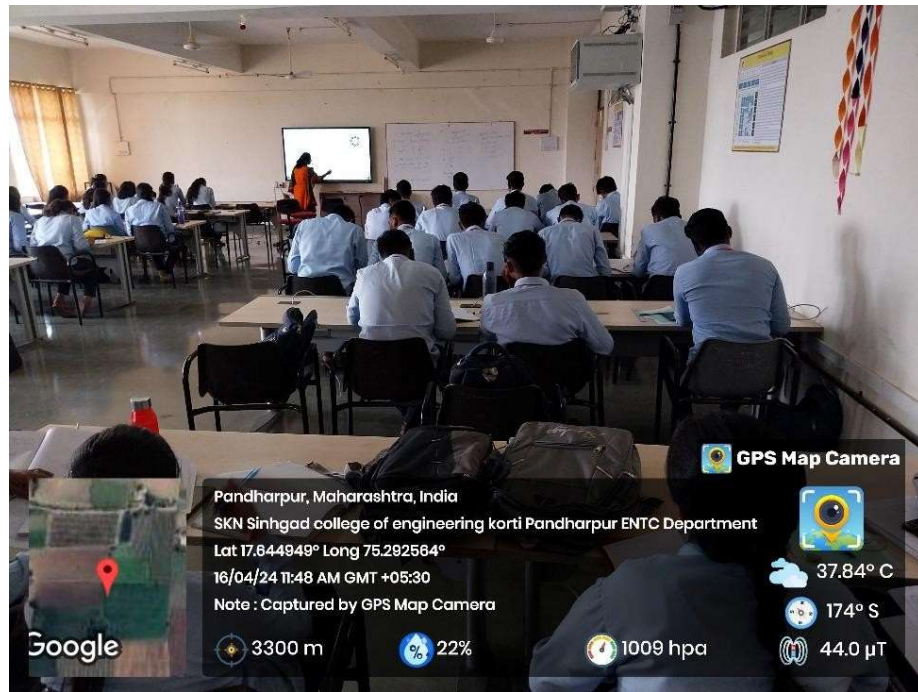
**Benefits:** Benefits: It increases student interest in studying and aids in the development of critical skills. This approach improves their ability to learn because the teacher can really illustrate the material on the smart board. They also develop strategies for solving problems, which are critical abilities in the electronics industry.

## 1. Smart Classroom

### A. Lectures was conducted in smart classroom to understand construction of RootLocus:



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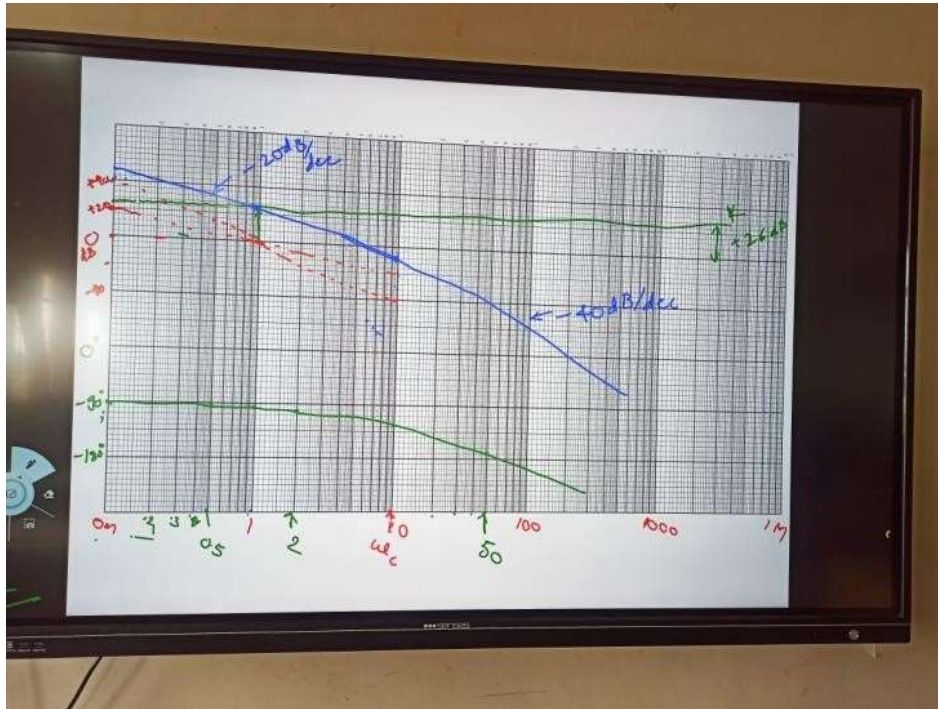


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### A. Lectures was conducted in smart classroom to understand construction of BodePlot:



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