

International Winter School- Manipal University Jaipur [IWSMUJ]-2023



[Hybrid Mode]

Project Overview

Name of Project- Design and implementation of linear and nonlinear control algorithm for Electrohydraulic Robot Manipulator

Name of instructor: Ashok Kumar Kumawat

Session: Jan.-Feb. 2023

Language of instruction: English

Number of contact hours: 36

Credit awarded: 03

Objective of Project

1. Mathematical model development of the Electrohydraulic system
2. Hardware interfacing of NI DAQ with sensor and actuator
3. Development of the control algorithm
4. MATLAB integration with the hardware system

Brief profile of the instructor

Mr. Ashok Kumar Kumawat is working as an Assistant Professor with Department of Mechatronics Engineering, Manipal University Jaipur, Rajasthan, India. He received B. Tech degree in Electronic Instrumentation & Control from Rajasthan Technical University, Kota, India, in 2010 and M.Tech degree in Control & Instrumentation from the Delhi Technological University, New Delhi, India, in 2014. His research interests include industrial instrumentation & control, cyber physical system, and nonlinear control.

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