

Course Name - Industrial Automation and Control

Faculty Name - Prof. Siddhartha Mukhopadhyay

Institute Name - IIT Kharagpur

Course Syllabus -

Week 1: Introduction

Week 2: Measurement Systems Characteristics

Week 3: Introduction to Automatic Control

Week 4: Feedforward Control Ratio Control

Week 5: Special Control Structures

Week 6: Sequence Control. Scan Cycle, Simple RLL Programs

Week 7: PLC Hardware Environment

Week 8: Flow Control Valves

Week 9: Industrial Hydraulic Circuit

Week 10: Energy Savings with Variable Speed Drives

Week 11: The Fieldbus Network - I

Week 12: Course Review and Conclusion (Self-study)