



**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



VINAYAKA MISSION'S  
RESEARCH FOUNDATION  
(Deemed to be University under section 3 of the UGC Act 1956)



Accredited by NAAC



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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**ACADEMIC YEAR: 2021 - 2022 (ODD)**

## **INDUSTRIAL AUTOMATION LAB (VII MECH) -17MECC91**

### **LIST OF EXPERIMENTS**

1. To design a Speed control circuits for double acting cylinder.
2. To design a Synchronization circuit for two cylinders.
3. To design a Continuous reciprocation of double acting cylinder.
4. To design a Sequencing of two cylinder circuits.
5. To design a Cascading circuit for trapped signals-2groups
6. Implementation of Logic Circuits: AND OR
7. Design of Basic Electro Pneumatic Circuits: Continuous reciprocation of cylinder(with timer and counter)
8. Design and testing of Force, Velocity calculations in Hydraulic Linear actuation
9. Automatic bottle filling Machine
10. Design and simulation of PLC Control Pneumatic/ Hydraulic linear actuator circuits.
11. To design a Water Level Controller using PLC.
12. To design a PLC Controlled Material Handling System.

HOD/MECH