

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR-05

(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)

Department of Chemical Engineering

Process Control Lab

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1. To prepare thermocouple set and to calibrate the same.
 2. To study the constructional details of bourdon tube pressure gauge and to calibrate it using a
(a) Manometer (b) Dead weight tester
 3. To study the Characteristics of control valves (linear, quick opening, etc.)
 4. To Study the dynamics of liquid level control systems of non - interacting and interacting types.
 5. To study the response of mercury in glass thermometer with and without a thermo well.
 6. To study the characteristics of an electronic PID Controller.
 7. To study the characteristics of a current to pneumatic converter.
 8. To study the effectiveness of computer control of a distillation column.
 9. To study the effectiveness of computer control of a heat exchanger.
 10. To study the effectiveness of computer control of a chemical reactor.
 11. To study the dynamic of pressure tanks.
 12. To calibrate an air purged liquid level indicator.
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