

# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR-05

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

Department of Chemical Engineering

## Chemical Process Calculations Lab

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1. To determine the boiling point relation with respect to concentration of caustic soda and verify Duhring's rule.
  2. Application of dry and wet bulb Thermometer to find out atmospheric humidity.
  3. Use of humidity charts to find enthalpy, dew point, humid heat and saturation.
  4. Solubility at room temperature and at boiling point of urea in water and verify the material balance.
  5. Crystallization of copper sulphate in saturated solution by cooling and finding out of the crystal yield.
  6. Combustion of coal and performing the material balance.
  7. Proximate analysis of coal sample.
  8. Measurement of flame temperature and compare actual & Theoretical temp. (Bunsen-Burner, spirit lamp, Kerosene lamp.)
  9. To find the heat of reaction using CaO and water.
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