

ME 326 Mechanical Engineering Laboratory IV (0-0-3-3)

Tribology: Performance of air bearings, normal bearings, friction and wear testing under different operating conditions, optical viscometry, scratch testing;

Thermal Science: Experiments in conduction, free and forced convection, heat exchangers, cooling tower, refrigeration, boiling heat transfer; Calibration of Thermocouple, Thermal Radiation; IC engine: petrol and diesel engine.

Instrumentation and control: Proportional, integral, PI, PD, and PID controllers, lead, lag, and lag lead compensators, hydraulic, pneumatic, and electronic controllers, experiment on microprocessor;