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Research Centre

The Department of Aerospace Engineering houses a state-of-the-art Aerodynamics, Propulsion, Structures Research Laboratory designed to support advanced teaching, research, and innovation in the fields of aerodynamics, CFD, structures, aeroelasticity, propulsion, etc. The laboratory serves as a vital resource for undergraduate and research scholars, enabling both experimental investigations and numerical simulations. The various facilities in the Department that enable research are

1. **Open circuit Subsonic Wind Tunnel**
    a. 0.6m X 0.6m X 2m test section
    b. Wind Velocity up to 80m/s
    c. 16 Channel Pressure Scanner
    d. 3-component Hot Wire Anemometer
    e. 6 Component Force Balance
2. **Supersonic Blow Down Wind Tunnel**
    a. Mach 1.5 to 4
    b. 16 Channel Pressure Scanner
    c. Schlieren Imaging
3. **250kN Low Fatigue Median Testing Machine**
4. **Strandburner/ Crawford Bomb**
    a. 250 bars pressure thrust chamber
    b. DAQ for measuring the regression rate
5. **Subsonic/Supersonic Free Jet Facility**
6. **Smart Structures Lab**
    a. High-sensitivity ceramic shear ICP Accelerometer
    b. DS1104 R&D Controller Board + dSPACE 1104 Control Desk
    c. High-end computational facility to accommodate GVT + DSP + SIMULATION
    d. Modally tuned Impulse Hammer with force sensor and tips
7. **ANSYS**
8. **MSC NASTRAN/PATRAN**
9. **MATLAB with Aerospace Tool Box, etc**
10. **PYTHON**
11. **ALTAIR HYPERWORKS**