

Tribology & Advanced Composite Lab

List of Equipments:

- ✓ Sliding Wear or Pin-On-Disc
- ✓ Three Body Abrasive Wear Tester
- ✓ Pin-on-Disc Tribometer
- ✓ Ring-On-Plate Wear Tribometer
- ✓ Reciprocating Friction Monitor
- ✓ Low Temperature Torque Tribometer
- ✓ Slurry Jet Erosion Tribometer
- ✓ Slurry Abrasion Tester
- ✓ Slurry Erosion Tester
- ✓ Multi-specimen Tester
- ✓ Linear Reciprocating Tribometer



Advance Casting Lab

List of Equipments:

- ✓ High Precision Weighing Machine
- ✓ Weighing Machine
- ✓ Three Beaker Rhodium Plant
- ✓ Sand Sieves



CAD/CAE Lab

List of Softwares:

Major Software

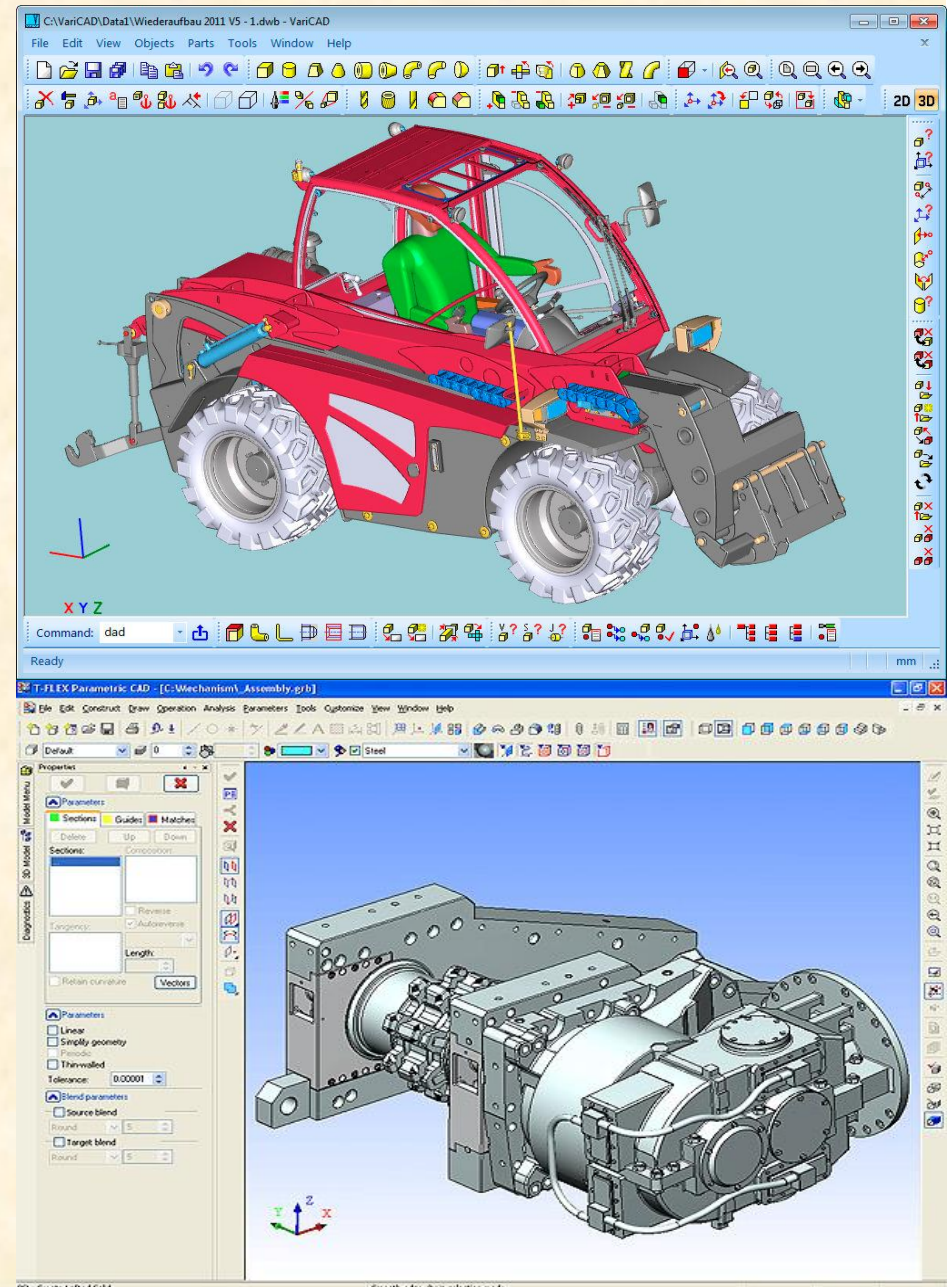
- ✓ Altair® Suite - 120 Seats
- ✓ Autodesk® Suite - 120 Seats

Software solution

- ✓ AutoCAD®, Autodesk Inventor®, HyperMesh, Radioss Linear, Radioss Dynamics, Radioss Non-linear, OptiStruct, Motion View and Motion Solve, AcuConsole and AcuSolve, HyperForm, HyperXtrude, SimLab, Solid Thinking,.

Functional Area

- ✓ 2D Drafting, 3D Modeling, Pre Processing, Mathematical Modeling, Linear Solver, Nonlinear Solver, Dynamic Solver, Optimization, CFD, Metal Forming, Extrusion Simulation, Industrial Design & Styling.



Advance Manufacturing Lab

List of Instrument:

- ✓ Cincinnati Milacron Arrow 500 Vertical Machining Center
- ✓ Bridgeport interact MK2 1 Vertical Milling Machine
- ✓ ZNC Electric Discharge Machining 3 Axis
- ✓ HMT CNC T-70 Train Master Lathe (non-working)
- ✓ Anton Paar Rotational Rheometer with Temperature Control
- ✓ Surtronic 25 Taylor Hophson Surface Measuring Instrument(non-working)
- ✓ Digital Tachometer
- ✓ Universal Electrode Holder
- ✓ Wenser High Precision Balancing Machine
- ✓ Sprit Level



Mechatronics Lab

List of Instruments:

- ✓ Advance PLC training system, with real time applications
- ✓ Universal Microcontroller Based Development System
- ✓ Basic Microcontroller Prototype Board
- ✓ Universal Electronic Teaching System
- ✓ Universal Transducer Sensor Boards: The system with various sensors and their use and interface, with any DAQ system
- ✓ Electronics work bench tools system
- ✓ Robotic teaching system
- ✓ PC based data acquisition system with sensors



Metal Cutting Lab

List of Equipments:

- ✓ Lathe Machine
- ✓ Copying Lathe
- ✓ Capstan & Turret Lathe
- ✓ Universal Horizontal Milling Machine Tool
- ✓ Tool and Cutter Grinder
- ✓ Bench Grinder

