

LABORATORY DEMONSTRATING ASSIGNMENTS

2024 - 2025 Academic Session

Fall Term 2024 (Sept.-Dec.)	Winter Term 2025 (Jan.-April)
<p>ME 4P03 – Fourth Year Laboratory</p> <p style="text-align: center;">Sessional Instructor</p> <p>Demonstrating 13 weeks @ 6 hrs. / week Preparation / Grading 52 hrs.</p> <p>Beam in Bending and Torsion (D10) Digital Control System, Part I (D13) Robot Programming (D15) Heat Exchanger (H2) Oscillation of a Mass Spring System (D7) Invigilation/Grading I Invigilation/Grading II Grading III</p>	<p>ME 4P03 – Fourth Year Laboratory</p> <p style="text-align: center;">Sessional Instructor</p> <p>Demonstrating 13 weeks @ 6 hrs. / week Preparation / Grading 52 hrs.</p> <p>Dynamic Vibration Absorber (D8) / Water Hammer (F11) Plastic Bending (PB) / Modal Analysis (MA) Design of Experiment (DOE) / Surface Generation in a Machining Process (SG) Bone Implant and Biomechanics (BI) Digital Control System, Part II (D14) Thermal System Simulation (TSS) Lift Coefficient of an Airfoil (F16) Invigilation/Grading I Invigilation/Grading II Grading III</p>
<p>ME 3M03 – Third Year Laboratory</p> <p style="text-align: center;">Sessional Instructor</p> <p>Demonstrating 13 weeks @ 6 hrs. / week Preparation / Grading 52 hrs.</p> <p>Drill Press (M1) Lathe (M2) Milling Machine (M3) Diesel Engine (T1) Statically Indeterminate Structure (D4) Uniaxial Tensile Test (P8) Invigilation/Grading I Invigilation/Grading II Grading III</p>	<p>ME 4FM3 – Advanced Instrumentation and Sensing for Thermo-Fluids</p> <p style="text-align: center;">Dr. Morton</p> <p>Expertise @ 65 hrs</p> <p>Arduino firmware development; Basic prototyping circuit design & hand-soldering microelectronics; Sensing: pitot tube/surface pressure, temperature, multi-axis accelerometer/gyro, humidity, barometric pressure, strain.</p>
	<p>ME 3M03 – Third Year Laboratory</p> <p style="text-align: center;">Sessional Instructor</p> <p>Demonstrating 13 weeks @ 6 hrs. / week Preparation / Grading 52 hrs.</p> <p>Drag on Spheres (F18) Plastic Properties (P5) Parallel Series Pump Test (F12) Resistance Spot Welding (RSW) Reynolds Belt (F20) Invigilation/Grading I Invigilation/Grading II Grading III</p>

ME 2B03 – Mechanical Measurements

Sessional Instructor

Demonstrating 13 weeks @ 6 hrs. / week
Preparation / Grading 52 hrs.

General ME Expertise
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Record Keeping@ 65 hrs.

General ME Expertise