Biomedical Electronic Measurements

BME253L (Fall 2025)

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Module	Materials	Assessment	Lab Exercise
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Series & Parallel	Circuits		
Resistance Kirchhof's			
Laws			
Ohm's Law & Power			Ohm's Law & Power
Voltage & Current			
Dividers Node			
Voltage & Mesh			
Current Analysis			
Thevenin & Norton			
Equivalent Sources			
Source Superposition			
Midterm I (Sep 22,			
2025)			
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Inductors DC			Inductors &
RC/RL Circuit			Oscilloscopes
Analysis			
Complex Impedance,			Impedance
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Filters Transfer			
Functions & Bode			
Plots (Frequency			
Domain)			

Module	Materials	Assessment	Lab Exercise
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(Time Domain)			
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2025)			
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Amplifiers & Active			
Filters			
Transformers &			Transformers &
Diodes			Diodes
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2025)			
Wheatstone Bridge			Wheatstone Bridge:
			Temperature
			Measurement
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(Dec 10, 2025)			