

Review: Quiz 3

Session 3f of “Basic Electricity”
A Fairfield University E-Course
Powered by LearnLinc

Basic Electricity

Two Sections

- Electron Flow and Resistance
 - 5 on-line sessions
 - Lab
- Inductance and Capacitance
 - 5 on-line sessions
 - Lab

Mastery Test, Part 1

Basic Electricity (Continued)

- **Text:** “Electricity One-Seven,” Harry Mileaf, Prentice-Hall, 1996, ISBN 0-13-889585-6 (Covers several Modules and more)
- **References:**
 - “Digital Mini Test: Principles of Electricity Lessons One and Two,” SNET Home Study Coordinator, (203) 771-5400
 - [Electronics Tutorial](#) (Thanks to Alex Pounds)
 - [Electronics Tutorial](#) (Thanks to Mark Sokos)
 - [Basic Math Tutorial](#) (Thanks to George Mason University)
 - [Vector Math Tutorial](#) (Thanks to California Polytec at atom.physics.calpoly.edu)

Section 3:

AC, Inductors and Capacitors

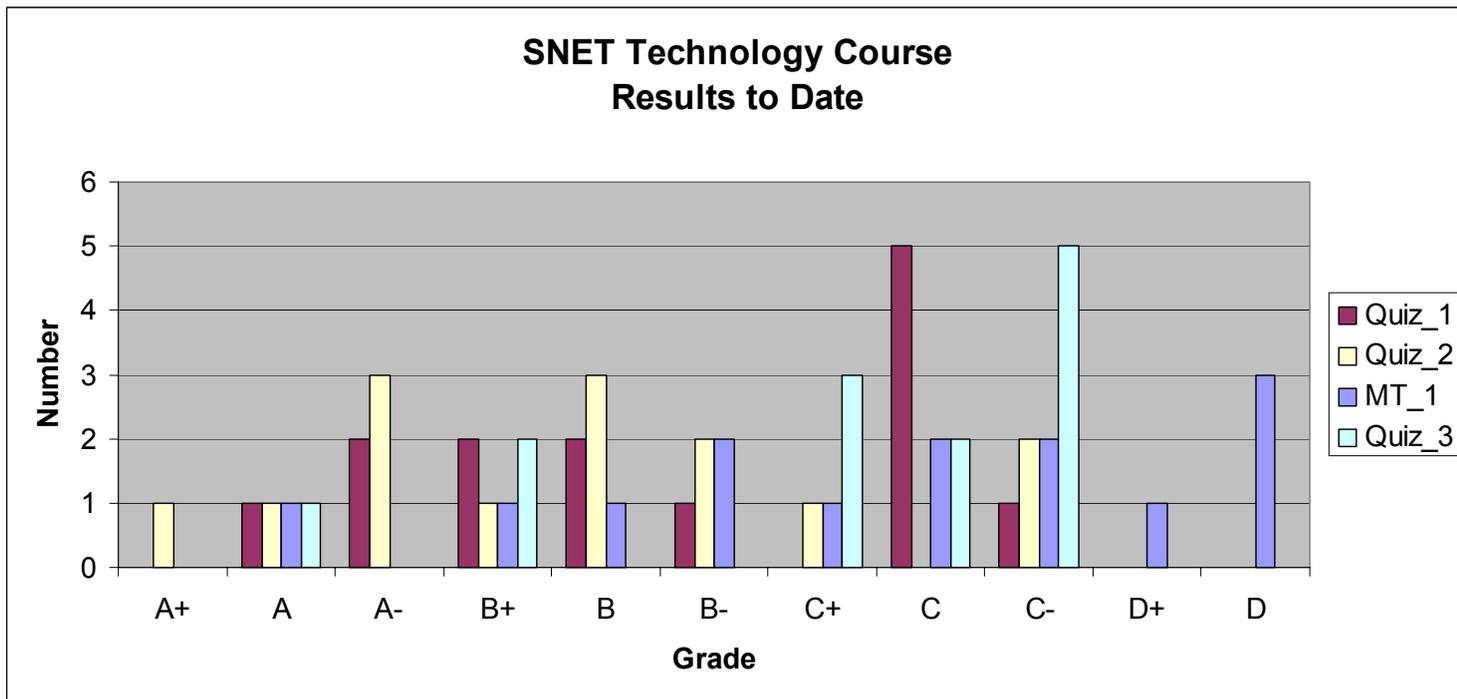
- **OBJECTIVES:** This section introduces AC voltage / current and their effects on circuit components (resistors, inductors, transformers and capacitors). The concept of impedance and the use of the vector analogy for computations is also introduced.

Section 3 Schedule:

Session 3a	– 05/13	Sine Waves, Magnitude, Phase and Vectors (again)	Text 4.1 – 4.24
3a continued	– 05/20	Complete 3a	
Session 3b	– 05/22	R-L Circuits (no class on 05/27)	Text 4.25 – 4.54
3b continued	– 05/29	Complete 3b	
Session 3c	– 06/03	R-C Circuits	Text 4.55 – 4.76
Session 3d (lab - 06/08, Sat.)	– 06/05	Series LC Circuits	Text 4.77 – 4.88
Session 3e (Quiz 3 due 06/16)	– 06/10	Series RLC Circuits	Text 4.89 – 4.113
Session 3f	– 06/17	Review (Discuss Quiz 3)	

Quiz_2 Results

- The class had a B-/C+ average – Nice Job, but could be better.
- Several of you need to correct some deficiencies. We'll be using this material in Section 4, so there's time to improve before MT2.



Quiz 3

- We'll use Appshare and Word to go over Quiz_3

Section 3 Schedule:

Session 3a	– 05/13	Sine Waves, Magnitude, Phase and Vectors (again)	Text 4.1 – 4.24
3a continued	– 05/20	Complete 3a	
Session 3b	– 05/22	R-L Circuits (no class on 05/27)	Text 4.25 – 4.54
3b continued	– 05/29	Complete 3b	
Session 3c	– 06/03	R-C Circuits	Text 4.55 – 4.76
Session 3d (lab - 06/08, Sat.)	– 06/05	Series LC Circuits	Text 4.77 – 4.88
Session 3e (Quiz 3 due 06/16)	– 06/10	Series RLC Circuits	Text 4.89 – 4.113
Session 3f	– 06/17	Review (Discuss Quiz 3) and complete 3e	

Section 4 Preliminary Schedule:

Session 4a	– 06/24	Parallel L-R-C Circuits	Text 4.114 – 4.132
Session 4b	– 06/26	Parallel L-R-C Circuits Cont.	
(have a nice July 4)		(no class on 05/27)	
Session 4c	– 07/08	Parallel Resonance	Text 4.133 – 4.146
Session 4d	– 07/10	Tuning and Filters	Text 4.147 – 4.151
(break for a week)			
Session 4e	– 07/22	Transformers and Impedance	Text 4.152 – 4.160
(Quiz 4 due 07/28)		Matching	
(lab - 07/27, Sat.)			
Session 4f	– 07/29	Review (Discuss Quiz 4)	
	07/31	MT2 Review	
		MT2 – AC Circuits	