NOVICE COURSE SCHEDULE

WEEK	ASSIGNMENT	EVALUATION
1	Intorductory SKYPE discussion of where one can go with radio / electronics / computers for fun and for career. Introduction to amateur radio stations and antennas.	Quiz #1 (5 multiple choice questions)
	Read Chapter 1 carefullyl in The ARRL Ham Radio Licen Manual Level 1 - Tecnician (23 pages)	
	INSTRUCTOR: if possible, frame and hang page 1-23 ("US Amateur Radio Bands") on the wall of the classroom.	
2	STUDY Chapter 2 . There are onl 8 pages but this chapter is PACKED with information. Expect this to take 2 hours. (or more)	Quiz #2
	MEMORIZE the multiplication factors for the following metric units (see Table 2.1, page 2-2) Giga	
	Mega	
	Kilo Centi	
	Milli	
	Micro	
	Nano Pico	
	MEMORIZE the RF Spectrum Ranges for	
	High Frequency (HF) 3-30 MHz	
	Very High Frequency (VHF) 30 - 300 MHz	
	Ultra High Frequency (UHF) 300 MHz - 3 GHz	
	MEMORIZE the speed of Light	
	Memorize the formula for Wavelength [T3B06] on page 2- 6.	
	Be able to calculate the wavelength ini meters of any	
	frequency given to you in Megahertz.	
	Class Fun Project:	
	Electronic Playground Model EP-50	
	Read Pages 6 and 7 Carry out Experiment #1 (Pages 8 and 9)	
	This can be done in one or more groups, but everyone needs	
	to be involved and everyone needs to understand the	
	SCHEMATIC (page 9) and how to make the connections in	

	the Wiring Checklist (see page 8, drawing of the connections)	
3	STUDY Section 3.1 of Chapter 3 pages 3-1 through 3-7 You do not need to work on the remainder of the chapter yet.	Quiz #3
	MEMORIZE (or be able to rearrange as necessary) the three forms of Ohm's Law on page 3-5 [T5D01, T5D02 and T5D03] If you have mastered algebra, you can easily derive any of them from T5D02.	
	MEMORIZE the formulas for Electrical Power that are given on page 3-7. The Basic formula is Power = Voltage x Current and any of the others can be derived from this with algebra.	
	Study the example problems and solutions on pages 3-6 and 3-7. If you have memorized the formulas and have some mathematical ability, you should be able to solve every single one of these examples.	
	Almost ALL of Electrical Engineering come from FOUR formulas discovered by Maxwell many years ago. Thos four formulas require Calculus to understand, and the formulas you are memorizing above are a tiny subset of those 4 formulas. Isn't it amazing that the Creator of the Universe made all of electicity be controlled by only four formulas?	
	Class Fun project Electronic Playground EP-50 Read More About Resistors on page 10. Carry out Experiment #2 The Brightness Control to learn how to use a VARIABLE RESISTOR. Carry out Experiment #3 Resistors in Series page 12 to learn about putting resistors in SERIES. You can do these experiments as individuals or in any kind of groups but everyone needs to have their hands involved and get to see and touch what is happening.	

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