Physics 2213

Course Syllabus
4/30/12

Spring 2012

Week	Date	Day	Topic	Subtopics	Y & F 13th ed. Chapter.section(s)	HW	Labs/Exams
1	Jan 24	T	**Electric Force**	Electric charge & force	21.1,2		NO LAB
	Jan 26	R		Coulomb's Law & Superposition	21.3,4	0	
2	Jan 31	T	**& Electric Field**	Electric Fields	21.4,7		NO LAB
	Feb 2	R		Calculating electric fields	21.5	1	
3	Feb 7	T		Electric field lines & Gauss' Law	21.6; 22.1-3 + Handout		#1: Electrostatics
	Feb 9	R		Gauss' Law apps. & conductors	22.4,5 + Handout	2	
4	Feb 14	T	**Electric Current**	Electric current, voltage, resistivity	25.1,2 (23.2) + Handout		NO LAB
	Feb 16	R	**& DC Circuits**	Resistance, EMF, & circuits	25.3,4	3	
5	Feb 21	T		Basic DC Circuits	25.5; 26.1		#3: DC Circuits
	Feb 23	R		More DC Circuits	26.2,5	4	
6	Feb 28	T	**Electric PE**	Electric Potential Energy	23.1	(5)	NO LAB
	Mar 1	R		Electric Potential	23.2-5		
	Mar 1	***R***	***7:30 - 9 PM***	***HWs #1-5; Labs #1-3***	***21, 22, 25, 26***		***PRELIM #1***
7	Mar 6	T	**Capacitance**	Capacitance & Electric energy	24.1,3,4 (,5)		#2: Oscilloscope
	Mar 8	R		RC Circuits	24.2; 26.4	6	
8	Mar 13	T	**Magnetic Force**	Magnetic fields & forces	27.1-5		#4: Capacitance
	Mar 15	R		Magnetic forces on currents	27.6,7 (,8,9)	7	
	Mar 20	*T*		*SPRING*			
	Mar 22	*R*		*BREAK*			
9	Mar 27	T	**& Magnetic Field**	Biot-Savart Law	28.1-5		#5: Magnetic
	Mar 29	R		Ampere's Law	28.6,7 (,8)	8	Fields
10	Apr 3	T		Magnetic field & force apps.	27, 28	(9)	NO LAB
	Apr 5	R	**Magnetic**	Faraday's Law	29.1-3		
	Apr 5	***R***	***7:30 - 9 PM***	***HWs #6-9; Labs #4,5***	***23, 24, 27, 28***		***PRELIM #2***
11	Apr 10	T	**Induction**	Magnetic Induction	29.6		NO LAB
	Apr 12	R		Magnetic Induction apps.	29.8,4,5	10	
12	Apr 17	T	**Inductance**	Inductance	30.1-3		#6: Magnetic
	Apr 19	R		LR Circuits	30.4	11	Induction
13	Apr 24	T	**AC Circuits**	LC(R) Circuits	30.5,6		#7: Inductance
	Apr 26	R		AC Circuits	31.1-6	12	(F only)
14	May 1	T	**EM Waves**	Maxwell's Eqns. & EM waves	29.7; 32.1,2 (,3,4)		#7: Inductance
	May 3	R		Finale		13	(M-R)
	May 7	*M*		*STUDY WEEK*		(14)	
	May 8	*T*					
	May 9	*W*					
	May 14	*M*	***2-4:30 PM***	***HWs #10-14; Labs #6,7 + rev.***	***29-32 + rev.***		***FINAL EXAM***

NOTE: This syllabus is subject to change. Updates will be made at lecture.