

Sheet2

Week 0			03 Aug	(0) Introduction	
Week 1	07 Aug	(1) Maxwell's equations, static solutions	10 Aug	(2) EM waves: propagation and decay	
Week 2	14 Aug	(3) EM waves: boundaries, confined spaces	17 Aug	(4) EM wave equation with sources	Drop Test (Aug 19)
Week 3	21 Aug	(5) EM radiation	24 Aug	(6) Antennas, Multipole radiation	HW1
Week 4	28 Aug	(7) From EM to special relativity	31 Aug	(8) Lorentz transformations of observables	
Week 5	04 Sep	(9) Relativistic energy and momentum	07 Sep	(10) Four-vectors: covariance, invariants	
Week 6	11 Sep	(11) Relativistic kinematics, Tensors	14 Sep	(12) EM field tensor and Maxwell's equations	
Week 7	18 Sep	(13) Tensor calculus	21 Sep	(14) Relativistic Lagrangian and EoMs	HW2
Week 8	25 Sep	(15) Lagrangian formulation of ED	28 Sep	Tutorial	
Week 9	02 Oct	HOLIDAY	05 Oct	Tutorial	MIDTERM (Oct 7)
Week 10	09 Oct	(16) Relativistic motion of charges	12 Oct	(17) EM potentials from a moving charge	
Week 11	16 Oct	(18) Fields from a uniformly moving charge	19 Oct	HOLIDAY	
Week 12	23 Oct	(19) Cherenkov radiation	26 Oct	(20) Radiation from an accelerating charge	
Week 13	30 Oct	(21) Radiation from linear motion	02 Nov	(22) Radiation from circular motion	
Week 14	06 Nov	(23) Radiation reaction force	09 Nov	NO CLASS	HW3
Week 15	13 Nov	(24) Scattering and absorption of EM fields	16 Nov	PROJECTS	
Week 16	20 Nov	Tutorial	23 Nov	HOLIDAY	
Week 17	27 Nov	Tutorial	30 Nov		Final Exam (Dec 2)