PH 1120 **P.K.Aravind/T.H.Keil**
Electricity and Magnetism **Term B08**

CALENDAR

The day-by-day schedule of lecture topics is shown below. Ch.21-2 refers to chapter 21, Section 2 of the text *University Physics (12th Ed) by Young and Freedman*. Exam dates are shown in bold (all exams will be held during regular class hours).

Date	Lecture Topic	Study Guide
T 10/28 **(Friday)**	Coulomb's Law (Ch.21-1,2,3)	SG1, Obj. 1,2
W 10/29	Electric Fields Motion in electric fields (Ch.21-4,5)	SG1, Obj. 3 SG1, Obj. 4
F 10/31	Electric Field Lines (Ch.21-6)	SG1, Obj. 5
M 11/3	Electric fields in and near conductors (Ch.22-5)	SG1, Obj. 6
W 11/5	Electric Potential and Potential Difference (Ch.23-1,2)	SG2, Obj. 7
F 11/7	**EXAMINATION 1**	**Study Guide 1**
M 11/10	Electric potential: energy considerations (Ch.23-1,2,3)	SG2, Obj. 8
W 11/12	Capacitance (Ch.24-1,2)	SG2, Obj. 9
F 11/14	Capacitors and Energy (Ch.24-3)	SG2, Obj. 9
M 11/17	Current and Resistance (Ch.25-1,2,3)	SG3, Obj. 10
W 11/19	Simple DC circuits, Emf and power (Ch.25-4,5) Resistors in series and parallel (Ch.26-1)	SG3, Obj. 10,11
F 11/21	**EXAMINATION 2**	**Study Guide 2**

Date	Lecture Topic	Study Guide
M 11/24	Multiloop DC circuits, Kirchoff's Rules (Ch.26-2)	SG3, Obj. 11
M 12/1	Magnetic Force on a moving charge and on a current carrying wire (Ch.27-1,2,6)	SG3, Obj. 12,13
W 12/3	Motion in a B field, Mass spectrometer, Velocity selector (Ch.27-4,5)	SG4, Obj. 14
F 12/5	**EXAMINATION 3**	**Study Guide 3**
M 12/8	Biot-Savart Law, Forces between parallel conductors (Ch.28-1,2,3,4)	SG4, Obj. 15 SG4, Obj. 16
W 12/10	Magnetic Field of a loop and of a solenoid (Ch.28-5,7)	SG4, Obj. 17
F 12/12	Magnetic flux (Ch.27-3) Faraday's Law (Ch.29-1,2)	SG4, Obj. 18 SG4, Obj. 19
M 12/15	Faraday's Law (contd.) Lenz's Law (Ch.29-3)	SG4, Obj. 19
W 12/17	**EXAMINATION 4**	**Study Guide 4**