EEE 345 : Engineering Electrody namics

year: 2016

lecturer: Dr. Thomas WALTHER

office: Mappin Building, first floor, E150d

Lecture times: Thursdays, 15-16:00, LT #11

Fridays , 12-13:00 , LT # 12

Lecturer will be available to answer questions on an individual basis, either book an appointment by email to walther @ sheffield. ac.uk (any time) or, without appointment, Mondays, 10-12:00, E150d (office)

Lecture dates.

February : 11,12, 18, 19, 25, 26

March : XX, 10, 11, 17, 18

April : 14, 15, 21, 22, 28, 29

May : 5,6,12,13, 7,20

exam. 2 hrs, answer 3 out of 4 questions

content: Maxwell's equations and applications to

- 1. electromagnetic waves
- 2. transmission lines
- 3. electrostatic devices / dielectric materials

4. optics

lecture topics .

electrostatics: pa-juactions magnetostatics:

(ables, eddy current,

Maxwell's equations

lelectrodynamics of waves

chandia, waves:

propagation, waves:

transmission lines, planar and spherical waves,

(oaxial cables dipole Kelds & antennas,

dispersion, optical laws

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