

Intermediate Electricity and Magnetism

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Comments

We have a website 😊.. <http://faculty.kfupm.edu.sa/phys/zhyamani/teaching/I-E&M/I-E&M.html>

There is a syllabus. The course schedule might undergo modifications in a few weeks.

Comments

Thank you for responding to the questionnaire on which language to use. We'll see!!

What will we study today?

- The big picture..
- Introduction to Electrostatics: J: Ch.1.1-1.7

Are you familiar with the:

- Dirac delta function
- Fourier integrals
- Divergence theorem
- Stokes's theorem

Notes:

Regarding Notation

Notes:

Coordinate Systems

Notes:

I will not get involved now in Jackson's Survey including the [magnitude of the electric charge](#) [significant figures], and the [idea behind the inverse square law](#) [and the mass of the photon]

Notes:

Jackson's 1.1-1.6

Coulomb's law, Gauss's law

A few comments

What's next?

What I expect of my students

High level of excitement to learn

Effort exerted in reading, thinking, solving, discussing and researching

Punctuality (to class and with submissions)

Interaction/ Engagement in class

Study from the textbooks (at least)

Summarize lessons learnt

Solve homework

Transparency and constructive criticism

A few comments

The 'extra' qualities/ skills you should acquire

English language, pedagogic discipline; camaraderie with colleagues, critical thinking, rational discussion, instruction, mathematical insight, computer programming