We will be dealing with Classical Electro dynamics.
Syllabus - (official, he disapparoves apparently)
□ Infroto electrustat
D Boundary value peroblem in electrostat
1) Neumann and Dirichlet peroblems
[Formal solution (Govern's function)
□ multipole ex punsion
D Electro stat of macroscopic media
□ Dielectrics
D Review of magneto states
1 Maxwell's equation
□ Macroscopic electro magnetism
□ Electro dynamics
D Conservation Laws
Droynting Theorem
1) Plane EM wave
□ Wave pou pagatton
□ Poloviization, seflection, transmission, TIR
D waves in conducting media
[] TEM(?) waves
□ waveguides
[Scolon, vector potential - Conlomb, Lurantz gauge
□ Retarded potential
☐ Something - something potential
1 Time - dependent Green's function
D Radiation
D Radiation by moving clarge.
STR + Dynamics of sulativistic purticles + Em
B Electocodynamics in tempor notation.

References³ Classical Electros chynamics — Jackson
Gaiffiths
Arf Ken Weber
Sommer feld — PDEs in Physics, Electrochynamics

Evaluation of Best 2/3 CT = 20%.

Midsems = 10%.

Endsem = 40%.

Tutorial + HW = 30%. = 60%.

CT Dates: 1- Wed, 29 Jan, 12 Noon
2- Wed, 26 March, 12 Noon
3- Wed, 16 April, 12 Noon.

Duce every 2 weeks, there will be ungraded assignments.