Course Information

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Course Contents:
1. Review of quantum mechanics
2. Time-dependent perturbation theory
3. Density matrix approach
4. Classical radiation fields
5. Two-photon excitations
6. Hydrogen atom
7. Laser spectroscopy
8. Atom optics on laser cooling and trapping

Pre-requisites:
Quantum Mechanics and Classical Electrodynamics

Reference Books:

Grades:
The mid-term exams weight 60% and an oral presentation on a journal weights 40%