

PHY7610 Syllabus

Prerequisites: PHY7600. This is a 3-hrs credit course.

Intended audience: Graduate students.

Synopsis: Maxwell equations, plane and spherical waves, waveguides, scattering and diffraction, plasma physics, relativity, relativistic dynamics, collision between charged particles, radiation by moving charges.

Textbook: J. D. Jackson, Classical Electrodynamics, Third Edition, Wiley, ISBN 978-00471030932-1.

Lecture Notes: Originally written by Prof. J. Wadehra, with updates.

Instructor: Prof. G. Bonvicini,

- Rm 335 Physics Building.
- tel. 577-1444
- Office hours: W 1:00-2:30, Th. 3:00-4:00.
- Email: phy217@physics.wayne.edu

Homeworks: Five per semester, given in class. Approximately 7 problems per homework. **Exams:** Three intermediate exams (four problems per exam), one final exam (six problems).