
General Physics VI: Modern Physics
PHYS 2750

1. **What is this course all about?**

This physics course explores the fundamental ideas that are still driving our technological developments. In particular it covers Einstein's famous special relativity, as well as how modern scientists perceive the microscopic world described by Quantum Physics. These new concepts are introduced through crucial historical observations. It covers the dual nature of light and particles, quantum well and tunneling phenomena which play a key role in modern electronics, the atomic and nuclei structure, and elementary particles.

2. **Textbook**

Physics for Scientists and Engineers
by R. D. Knight
4th Edition,
Pearson 2017.

3. **Instructor**

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4. **Lectures**

- Normal Lecture Hours: Tuesday, Thursday 12H00-13H00, room C2045
Friday 13H00 - 14H00, room C2045

5. **Test and marking scheme**

Physics 2750

- **15% Assignments (about 6 assignments)**
- **35% Midterm exam**
- **50% Final exam**
- **no supplementary exam**

Midterm exam is tentatively scheduled for:

Midterm
February 14, 2019