

Course Outline

Course: Quantum Mechanics 1-Section I

Instructor: Dr Alakabha Datta

Office: Lewis 209

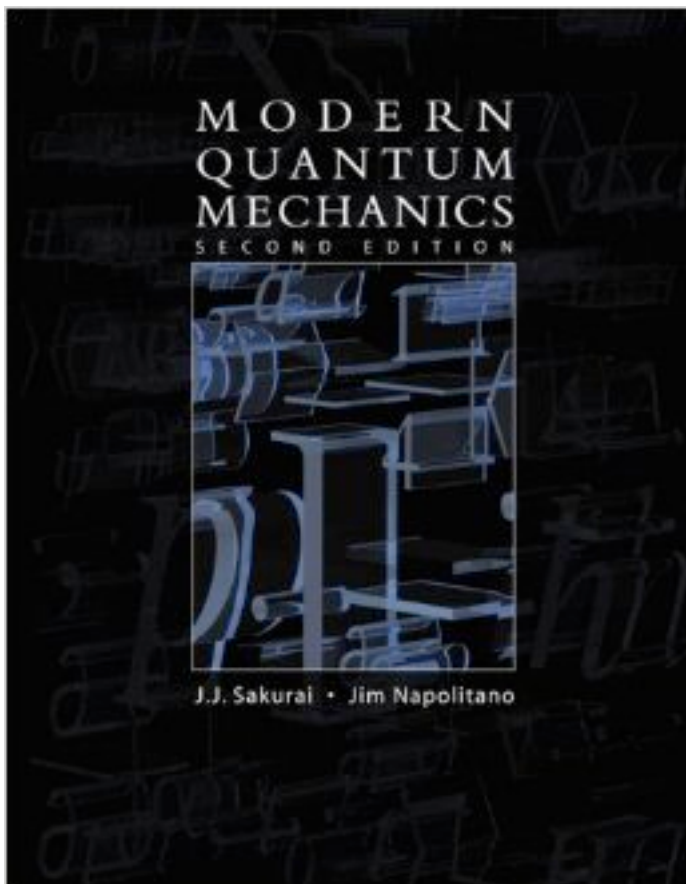
Meeting: M-W-F 11-11.50 am at Lewis 104(Tutoring Room)

Office Hours: By Appointment

Email: datta@olemiss.edu, datta@phy.olemiss.edu

Phone: (662) 915-5611

Course homepage: Check Blackboard.



Book : Modern Quantum Mechanics
Second Edition

J.J. Sakurai and Jim Napolitano

Course Requirement: You must have taken undergraduate quantum mechanics. You must be familiar with mathematical methods for physicists at the undergraduate level. Knowledge of linear algebra like basis states, eigenvalues, eigenvectors and diagonalization e.t.c. is extremely important

Course Goals: Learning the basic postulates and rules of Quantum Mechanics and learning to apply them to solve problems in various areas of research.

Independent study: The course may also involve solving problems that will require students to research material on published journals to complete the project. The purpose of this is to help the student acquire skills to pursue independent research.

Marking:

Homework: 55 % (25% book HW, 20% short assignments)

Mid Term Exam 20%

Final Exam: 25%

Monday Dec 8, 2014 at Noon (See Class Schedule)

An overall course average of the following percentages will guarantee the corresponding letter grade:

90%	A
80%	B
70%	C
60%	D

Topics Covered in course: Topics will be taken from the first 3 chapters and part of chapter 5. Topics include fundamental concepts of Quantum Mechanics, Quantum dynamics, theory of angular momentum and time independent perturbation theory.

Attendance: There is no attendance requirement. However if you miss an exam because of illness I will require a doctor's note. If you will be away on other reasons inform me prior to your absence and get a note if applicable.

Academic Integrity: We will follow the University's policy of academic integrity (M-book). Violations of these policies will result in a failing grade and other disciplinary actions.