Instructor: R. Pati, Office: Fisher 218, e-mail: patir@mtu.edu
Office hours: open (any time I am in office)


Topics: Mathematical introduction (Ch. 1); Inadequacy of classical physics (Ch. 3); Postulates (Ch. 4); Uncertainty relation (Ch. 9); one dimensional problem (Ch. 5); Classical limit (Ch. 6); Harmonic Oscillator (Ch. 7); Angular Momentum (Ch. 12); Hydrogen atom (Ch. 13); Variational Method (Ch. 16); Time independent perturbation theory (Ch. 17)

Other useful books:

S. Gasiorowicz, Quantum Physics, 3rd Edition
J. J. Sakurai, Modern Quantum mechanics, Revised Edition
N. Zettili, Quantum Mechanics Concepts and Applications, 2nd Edition
Landau and Lifshitz, Quantum mechanics (Non-relativistic theory) vol. 3, 3rd edition
A. Messiah, Quantum mechanics Vol. 1 and 2
E. Merzbacher, Quantum mechanics
Cohen-Tannoudji, Diu, and Laloe, Quantum mechanics, Vol. 1 and 2.
L. I. Schiff, Quantum Mechanics, 3rd Edition

Grading: 50% Homework; 25% Quiz; 25% Final

90-100: A
80-89: AB
70-79: B
65-69: BC
60-64: C
55-69: CD
50-54: D
< 50: F

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