

The Department of Mathematics

2021–22–B term

Course Name Quantum Theory 1

Course Number 203.1.3141

Course web page

<https://www.math.bgu.ac.il/en/teaching/spring2022/courses/quantum-theory-1>

Office Hours <https://www.math.bgu.ac.il/en/teaching/hours>

Abstract

Requirements and grading¹

Course topics

Photoelectric effect, Frank-Hertz experiment, Compton effect, Two-slit experiment, Particle-wave duality, Bohr model, Periodic table Schrodinger eq, Operators, Harmonic oscillator, Stepwise potentials, Quantum mechanics in Hilbert space, Commutator, Central forces, Angular momentum, Hydrogen atom, Magnetic field and spin

¹Information may change during the first two weeks of the term. Please consult the webpage for updates