UCT Physics OpenContent - PHY2015S

This page contains links to the course material available as open content from the UCT Department of Physics course PHY2015S. The availability of these materials is part of UCT's OpenContent initiative.

Course description

PHY2015S is the second-year second semester half course for science students in the MPSS programme. It is a mainstream physics course, and is also suitable for mathematicians, astronomers, chemists and computer scientists.

QUANTUM MECHANICS: The basic assumptions of quantum mechanics, solutions of Schrodinger's equation, properties of wave functions and operators, one-dimensional applications, angular momentum in quantum mechanics, three-dimensional applications, the hydrogen atom, approximate methods.

Lecture Notes - Quantum Mechanics

- Part 1
- Part 2

Tutorials - Quantum Mechanics

- Quantum mechanics 1
- Quantum mechanics 2
- Quantum mechanics 3
- Quantum mechanics 4
- Quantum mechanics 5
- Quantum mechanics 6
- Quantum mechanics 7