

## المحتوى العلمي المقرر:

- *Introduction to quantum Mech.*
- *Atomic structure*
- *Atomic Models*
- *Thomson Model*
- *Rutheafad Model*
- *Bohr Model*
- *Electron energy levels in H-atom*
- *Spectral series of H-atom*
- *Bohr Quantum condition from debroylic hypothesis*
- *Excitation and ionization of atoms*
- *Water atom model*
- *Orbital analytical in quantum*
- *Electron spin*
- *Total Angular montem*
- *Magnetic moment due to*
- *Orbital of electron*
- *Spin of electron*
- *Selective rules*
- *Pauli exclusion principle*
- *R. Theory*
- *Faillneaf classical*
- *Blade body radiation, Plank R. theory*
- *Properties of photons , Photoelectric effect*
- *Einstein's Photoelectric equation*
- *Compton effect.*

## الكتب الأساسية:

University Physics; Young and Freedman, pearson, Addison Wesley, 11th Edition, 2003

## المرجع المساند:

Fundamentals of Physics; Halliday, Resnik and Walker, Wiley 8th Edition, 2007.