

المحتوى العلمي المقرر:

- *Some mathematical principle with the classical principle:*

- *Cartesian coordinate*
- *Complex number*
- *Operator*
- *The accepted wave function*
- *Conservative system*
- *Newton law in motion*
- *Lagrange*
- *Hamilton equation in motion*

- *Black body radiation*

- *Photoelectric effect*
- *The line spectra of atoms*
- *The work of Born on atomic spectra*
- *Heisenbreg uncertainty principle*
- *De Broglie relationship*

الكتب الأساسية:

Introduction to Atomic and Nuclear Physics; H. Semat, Holt McDougal; 5th Edition 1972.

المرجع المساند:

Atomic Physics; C. Foot, Oxford University Press, USA; 1st Edition, 2005.