

Modern physics2

Name of Lecturer: Asst. Prof. Dr.Nabil J.AL-Bahnam

References:

- Demtröder, Wolfgang , Atoms, Molecules and Photons An Introduction to Atomic-, Molecular- and Quantum Physics,2010.
- Arthur Beiser - Concepts of Modern Physics: 5th (fifth) Edition ,2002.
- Henry Semat, John R. Albright , Introduction to Atomic and Nuclear Physics , 1972 .

Delivery Plan (Weekly Syllabus)

	Material Covered
Week 1	Dalton law-Determination Of Avogadro Number
Week 2	Bragg Reflection Of X-Ray By Planes
Week 3	Electronic Structure Of Atoms
Week 4	Cathode Rays
Week 5	Measurement Of The Charge
Week 6	Atomic Model –Atomic Collision
Week 7	Mid-term Exam
Week 8	Integral And Differentia Cross-Sections
Week 9	Thomson's Atomic Model
Week 10	Rutherford Atomic Model
Week 11	Bohr Theory Of Hydrogen Atom
Week 12	Vector Model Of The Atom
Week 13	Spectrum- Hydrogen Spectral Line
Week 14	Zeeman Effect - Charge Particle Interaction
Week 15	Spectral Symbols-Stopping Power Theory

