

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Physics Lab(4)
Course number	PHYS3123
Faculty	
Department	
Course type	College Needs
Course level	3
Credit hours (theoretical)	0
Credit hours (practical)	1
Course Prerequisites	

Course Objectives

- 1 - study the x-ray diffraction to find the space parameter
- 2 - study the electron diffraction to find the plank constant
- 3 - study the specific charge to find the magnitude of charge
- 4 - study the x-ray absorption of x-ray from different material to find the absorption ion coefficient
- 5 - study the stefan boltzman law

Course Contents

- 1 - Determination of Specific Charge
- 2 - Electron Beam Diffraction De-Broglie wavelength
- 3 - Electron Spin Resonance and Determination of g factor for electron
- 4 - Determination of lattice constant of crystal using X-Ray
- 5 - Determination of Stefan-Boltzman Constant using black body Radiation
- 6 - Determination Plank constant by using photoelectric effect
- 7 - Determination of absorption coefficient of different material using of X-Ray

Teaching and Learning Methods

- 1 - ,,mn

Students Assessment

Assessment Method	TIME	MARKS
reports		40
Attendance		10
final exam		50

Books and References

- Course note manual sheet for atomic lab

