

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Nuclear Physics(2)
Course number	PHYS4327
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	3
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - This course will give an idea about finding the equations of motion for field systems. Mawells equation, Klein Gordon equation and Dirac equations will be given
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Course Contents

1 - Lagrangian and Hamiltonian formulations of field systems Maxwells field, Klein Gordon Equation. Dirac equation. Forces, 3- Gauge field theories, 2-

Students Assessment

Assessment Method	TIME	MARKS
		, Participation and homework 10% 2 mid. terms 40%, Final 50%

Books and References

Essential books	Particle physics and introduction to field theory, T. D. Lee
Other References (Periodical, web sites, etc.)	D.J. Griffiths