

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

Course name	Physics Lab(2)
Course number	PHYS2112
Faculty	
Department	
Course type	Major Needs
Course level	2
Credit hours (theoretical)	0
Credit hours (practical)	1
Course Prerequisites	

#### Course Objectives

1 - Familiarity with the use of modern scientific equipment
2 - Familiarity with the use of specialized experimental techniques
3 - The ability to communicate clearly , readably , and concisely the results and essentials features of an experiment
4 - The experiment of magnetic field of earth is used to calculate the calibration factor
5 - The experiment filed of a solenoid and single coil is used to calculate the magnetic field constant
6 - The experiment of magnetic induction is used to calculate magnetic filed constant
7 - The experiment of inductance od solenoids to study the relation between self inductance and number of turns , self inductance and length of the coil and self inductance and the radius of the coil
8 - The experiment of A.C circuits is used to calculate the values of self inductance A and the capacitance C
9 - The experiment of resonance is used to calculate the resonance frequency

#### Course Contents

1 - AC circuits, RL and RC circuits, resonance circuits, Measurements of earth magnetic field, Magnetic field of coils and solenoids, Magnetic induction, Inductance of solenoids
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