

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Physics Lab(3)
Course number	PHYS3121
Faculty	
Department	
Course type	Major Needs
Course level	3
Credit hours (theoretical)	1
Credit hours (practical)	0
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 Ohms law is used to calculate of unknown resistance
- 5 - The experiment of series connection of resistances is used to prove the total resistances equal the sum of all resistances
- 6 - The experiment of parallel connection of resistances is used to prove the total resistances equal the sum of all resistances
- 7 - The experiment is used to study diode characteristics
- 8 - The experment is used to study how to rectify alternating current by using half wave and full wave circuits
- 9 - The experiment is used to study transistor characteristics
- 10 - The experiment is used to study the emitter and fixed bias circuits
- 11 - The experiment is used to study the voltage divider circuits
- 12 - The experiment is used to amplify voltage and current by using amplifire circuit

Course Contents

- 1 - Diode characteris tics, half and full wave rectification and with filter, Zener diode, Transistor characteristics, fixed and emitter bias circuits, voltage divider circuit, Amplifier and its frequency response, FET characteristics

