



**Sudan University of Science and  
Technology  
College of Graduate Studies**



# **Investigation of Irradiated Bee Honey by Pulsed He-Ne Laser (632.8nm)**

**تقصي عسل النحل المشع بليزر الهليوم نيون (632.8nm)  
النبضي**

**A dissertation Submitted as Partial Fulfillment of the Requirements for the  
Degree of Master of Science in Physics.**

**By  
Al humira Elseir Gorashe Ahmmed**

**Supervisor  
Dr. Ali Abdel Rahman Saeed Marouf**

**May 2017**