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

## Identification of the Constituents of Some Sudanese Crude Oil and Soil Using Laser Induced Breakdown Spectroscopy

التعرف على مكونات بعض خامات وتربة حقول البترول السوداني باستخدام تقانة الانهيار الكهربي المستحث بالليزر

A Thesis Submitted in Fulfillment of the Requirements for the Philosophy Degree in Laser Applications in Chemistry

By Saifeldin Yassin Mohamed

Supervised by
Prof. Dr. Nafie A. AL Muslet
Prof. Dr. J. J. Laserna
July - 2012