



**Fayoum University**  
**Faculty of Science**  
**Chemistry department**

**Preparation and hydration characteristics  
of eco-friendly cements from pozzolanic  
materials and lime rich sludge**

**By**

**Aya Zayed Abd Elgalel Zayed**

**B.SC. in Chemistry, Fayoum University**

**A thesis submitted in partial fulfillment**

**of**

**The requirements for the degree of Master of Science**

**in**

**Inorganic Chemistry, Chemistry Department, Faculty  
of Science, Fayoum University**

