

FACULTY OF GRADUATE STUDIES

Synthesis and Characterization of Nano-Iron Based Materials and Their Application for the Removal of Anionic and Cationic Dyes

تحضير وتشخيص مواد مستندة للحديد بمقياس النانو واستخدامها لإزالة الأصباغ السالبة والموجبة

This Thesis was submitted in partial fulfillment of the requirements for the

Master's Degree in Applied Chemistry

From the Faculty of Graduate Studies at Birzeit University, Palestine

By: Muath Nairat

Supervised by: Prof. Talal Shahwan