## بسم الله الرحمن الرحيم



## Sudan University of Science and Technology College of Petroleum Engineering and Technology Department of Transportation and Refining Engineering



## SIMULATION OF CRUDE DISTILATION UNIT (CDU) AND NEW METHOD DESIGN OF DISTILLATION TOWER USING ASPEN HYSYS

(KRC CASE STUDY)

محاكاه وحده التقطير الجوي واستخدام طريقه جديده لتصميم عمود التقطير الجوي باستخدام برنامج الهايسيس (شركه مصفاه الخرطوم)
Dissertation submitted in partial fulfillment of the requirement for the Bachelor of Engineering (Honrs)
Degree in Transportation and Refining Engineering

Prepared by

Mustafa Jamal Alden Mustafa Mohamed Ahmed Alnaem Amna Alfatih Ahmed

-:Supervisor

Dr. Abdelgadir Bashir Banaga September 2014

SIMULATION OF CRUDE DISTILATION UNIT (CDU) AND NEW METHOD DESIGN OF DISTILLATION TOWER USING ASPEN HYSYS (KRC CASE STUDY)

## Graduation project submitted to college of Petroleum Engineering and Technology in Sudan University of Science and Technology

submitted in partial fulfillment of the requirement for the Bachelor of Engineering (Hons) Degree in Transportation and Refining Engineering :Prepared by

Mustafa Jamal Alden Mustafa Mohamed Ahmed Alnaem Amna Alfatih Ahmed -

:Supervisor

Dr. Abdelgadir Bashir Banaga

This project is approved by College of Petroleum Engineering and Technology to Transportation and Refining Department

Supervisor: Dr. Abdelgadir Bashir Banaga
.....:Signature

Head of Department: Mrs. Zienab Abdallah Mohammed Khliel
....:Signature

Dean of College: Dr. Sumya Abdoalmonem Mohammed
...:Signature

Date: / /2014