



بسم الله الرحمن الرحيم

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تم رفع هذه الرسالة بواسطة / مني مغربي أحمد

بقسم التوثيق الإلكتروني بمركز الشبكات وتكنولوجيا المعلومات دون أدنى

مسئولية عن محتوى هذه الرسالة.

ملاحظات: لا يوجد





*Ain Shams University  
Faculty of Women for Arts,  
Science and Education  
Physics Department*

**" Determination of Natural Radioactivity Concentrations  
and Environmental Impact Parameters in Rock Samples  
collected from a Mining Area in Southwestern Sinai,  
Egypt**

*Presented By*

**Shaimaa Mohamed Adel Hussein**

**(B.Sc. in Physics and Chemistry – Cairo University, 2009)**

*Thesis*

**Submitted in the Partial Fulfillment**

**for M.SC. Degree of Science in (Radiation Physics)**

*Under Supervision of*

***Prof. Dr. Tarek El-desoky  
Prof. of Radiation Physics.  
Faculty of Women for Arts,  
Science and Education, Ain-  
Shams University***

***Prof. Dr. Hanan Mohammed Diab  
Prof. of Radiation Physics. Nuclear and  
Radiological Regularity Authority***

***Dr. Thanaa M. Abd-El Maksoud  
Ass. Prof. of Nuclear Physics.  
Faculty of Women for Arts,  
Science and Education, Ain-  
Shams University***

(2022)





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## **APPROVAL SHEET**

**Student Name:** Shaimaa Mohamed Adel Hussein  
B.Sc. in Physics and chemistry (2009)

**Thesis Title:** "Determination of Natural Radioactivity Concentrations and Environmental Impact Parameters in Rock Samples collected from a Mining Area in Southwestern Sinai, Egypt "  
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### **Supervisors Committee:**

- **Prof .Dr Tarek Mohamed El-desoky**  
Prof. of Radiation Physics,  
Faculty of Women for Arts, Science and Education,  
Ain- Shams University
- **Prof. Dr. Hanan Mohammed Diab**  
Prof. of Radiation Physics.  
Nuclear and Radiological Regularity Authority
- **Dr. Thanaa Mohamed Abd-El Maksoud**  
Ass.Prof. of Nuclear Physics  
Faculty of Women for Arts, Science and Education,  
Ain shams University

**Date of Research:**     /     / 2022

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### **Approval Stamp:**

**Approval of Faculty Council:**     /     / 2022

**Approval of University Council:**     /     / 2022









# DEDICATION

*To*

*My Parents (Father and Mother),*

*My Second Mother (Dr Hanan Diab),*

*My Brothers (Hussein & Ahmed)*

*And*

*My Children (Yassin & Haneen)*



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I would like to express my sincere thanks to my supervisor, **Prof. Dr. Hanan Mohamed Diab**, Prof. Radiation Physics, Nuclear and Radiation Safety Research Center, Atomic Energy Authority, for her



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