

**Republic of Iraq  
Ministry of Higher Education & Scientific  
Research Baghdad University  
College of Education for Pure Science  
Ibn /AL – Haitham  
Department of Educational and  
Psychological Sciences**



**The Effect of Strategy Cognitive Acceleration in the  
Achievement of the practical Artificial Chemistry  
Material and Logical Thinking for Students  
of pure Sciences Education College  
- Ibn Al- Haitham**

**A thesis submitted to  
The council of the College of Education For Pure Science –Baghdad  
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