



بسم الله الرحمن الرحيم



***Sudan University of Science & Technology***

***COLLEGE OF GRADUATE STUDIES***

## **Service life design of concrete structures**

(A Case study corrosion of steel bars reinforcement)

**تصميم حياة الاستخدامية للمنشآت الخرسانية المسلحة**

(دراسة حاله صدأ حديد التسليح)

A Thesis Submitted to the college of Graduate studies

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of Science in civil Engineering (Structures).

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