بسم الله الرحمن الرحيم

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ملاحظات:

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Cairo University

THE EFFECT OF APPLYING PARAMETRIC DESIGN TO EDUCATIONAL FACILITIES IN EGYPT

By

Warda Ahmed Yusuf

A Thesis Submitted to the
Faculty of Engineering at Cairo University
in Partial Fulfillment of the Requirements
for the Degree of
MASTER OF SCIENCE
in
Architectural Engineering

FACULTY OF ENGINEERING, CAIRO UNIVERSITY
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Under the Supervision of

Prof. Dr. Medhat Dorra

……..

Professor of Architecture
Faculty of Engineering, Cairo University

Prof. Dr. Khaled M. Dewidar

……..

Associate Professor Architecture
Faculty of Engineering, Ain-shams University

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Approved by the
Examining Committee

_____
Prof. Dr. Medhat Dorra Thesis Main Advisor
Professor Architecture Faculty of Engineering, Cairo University.

_____
Prof. Dr. Khaled M. Dewidar Advisor
Professor Architecture Faculty of Engineering, Ain-shams University.

_____
Prof. Dr. Medhat El-shazly, Internal Examiner
Professor Architecture Faculty of Engineering, Cairo University.

_____
Prof. Dr. Ahmed Yehia Rashed, External Examiner
Professor Architecture Faculty of Engineering, The British University in Egypt.

FACULTY OF ENGINEERING, CAIRO UNIVERSITY
GIZA, EGYPT
Year 2022

Engineer's Name: Warda Ahmed Yusuf
Date of Birth: 01/15/1994
Nationality: Egyptian
E-mail: Warda.alalawi22@gmail.com
Phone: 01143822000
Address: 7 Watnya blocks, Hai Elsefarat, Nasr-city, Cairo, Egypt.

Registration Date: 01/10/2018
Awarding Date: …./…./2022
Degree: Master of Science
Department: Architectural Engineering.

Supervisors:

Prof. Dr. MEDHAT DORRA
Prof. Dr. KHALED M.DEWIDAR

Examiners:

Prof. Medhat Dorra (Thesis main advisor)
Prof. Khaled M. Dewidar (advisor)
(Ain-shams university)
Prof. Medhat El-shazly (Internal examiner)
Prof. Ahmed Yehia Rashed (External examiner)
(Prof architecture faculty of engineering. The British university in Egypt)

Title of Thesis:

The effect of Applying Parametric Design to educational facilities in Egypt

Key Words:
Parametric Design; psychological comfort; educational facilities; identity; student performance.

Summary:

It is necessary for architects to understand the importance of providing comfort to the educational facilities in order to reach maximum human effectiveness of students. To achieve that new design techniques requires to be applied. This technique is applying parametric design, which improves the design of the buildings. New perspective were added in this research where architects have the choice where the parametric design to be headed towards new modern architecture to represent a brand new school with new character or Applying the latest technology while designing a building by adding a certain parameters to maintain the identity of the country. One of the main parameter should be added to the design is the psychology parameter where psychology has a huge impact to the design. By adding this particular parameter it would have a positive impact to psychological comfort, the mental health of the students and their performance.

Disclaimer

I hereby declare that this thesis is my own original work and that no part of it has been submitted for a degree qualification at any other university or institute.

I further declare that I have appropriately acknowledged all sources used and have cited them in the references section.

Name: Warda Ahmed Yusuf Abdulghaffar Alalawi Date: ../../2022

Signature:

Dedication

This study is wholeheartedly dedicated to my beloved mother, **Amira Mahmoud,** who have been my source of inspiration and gave me strength when I thought of giving up, who continually provide their moral, spiritual and emotional support.

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”الْحَمْدُ لِلّهِ الَّذِي هَدَانَا لِهَـذَا وَمَا كُنَّا لِنَهْتَدِيَ لَوْلا أَنْ هَدَانَا اللّهُ“

“And they will say: Praise be to Allah, who has guided us to this. Never could we have found guidance, had it not been for the guidance of Allah”

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” وَإِذْ تَأَذَّنَ رَبُّكُمْ لَئِن شَكَرْتُمْ لَأَزِيدَنَّكُم“

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