

**THE STUDY OF HUMAN COMPUTER INTERACTIONS:
THE IMPACT OF LAPTOP USAGE AMONG THESIS STUDENTS**

by

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains neither material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT

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Final year students have a higher intensity and duration of the laptop usage because they have to do their thesis and for finish their Bachelor's and Doctorate Degree, whereas the design of laptop is not in accordance with the standards of ergonomic. The purpose of study is to know the impact of laptop usage among thesis students. It can have impact for students such as decreased productivity due to health problems from laptop usage. This research used a statistical analysis and Rapid Office Strain Assessment (ROSA) methodology with 45 respondents. For statistical analysis, Kruskal – Wallis and Mann – Whitney Test shows there are relationship between laptop size with wrist pain level and dry eyes frequency, pan depth with elbow pain level and frequency, mouse and neck pain frequency ($\alpha = 0,05$). For ROSA, 67% of respondents have complaint on their body and for ROSA analysis, 40% of respondents has score 5, it means they are in dangerous zone and there's should be improvement in the future study. For thesis students, provides the information when using a laptop and it can increases the awareness of students & to prevent the impact of laptop usage. For university, give an overview from the impact of laptop usage, so the university can provides classrooms based on ergonomics perspective.

Keywords: Human Computer Interaction, Ergonomic, Work-related problem, ROSA Methodology, Health Impact

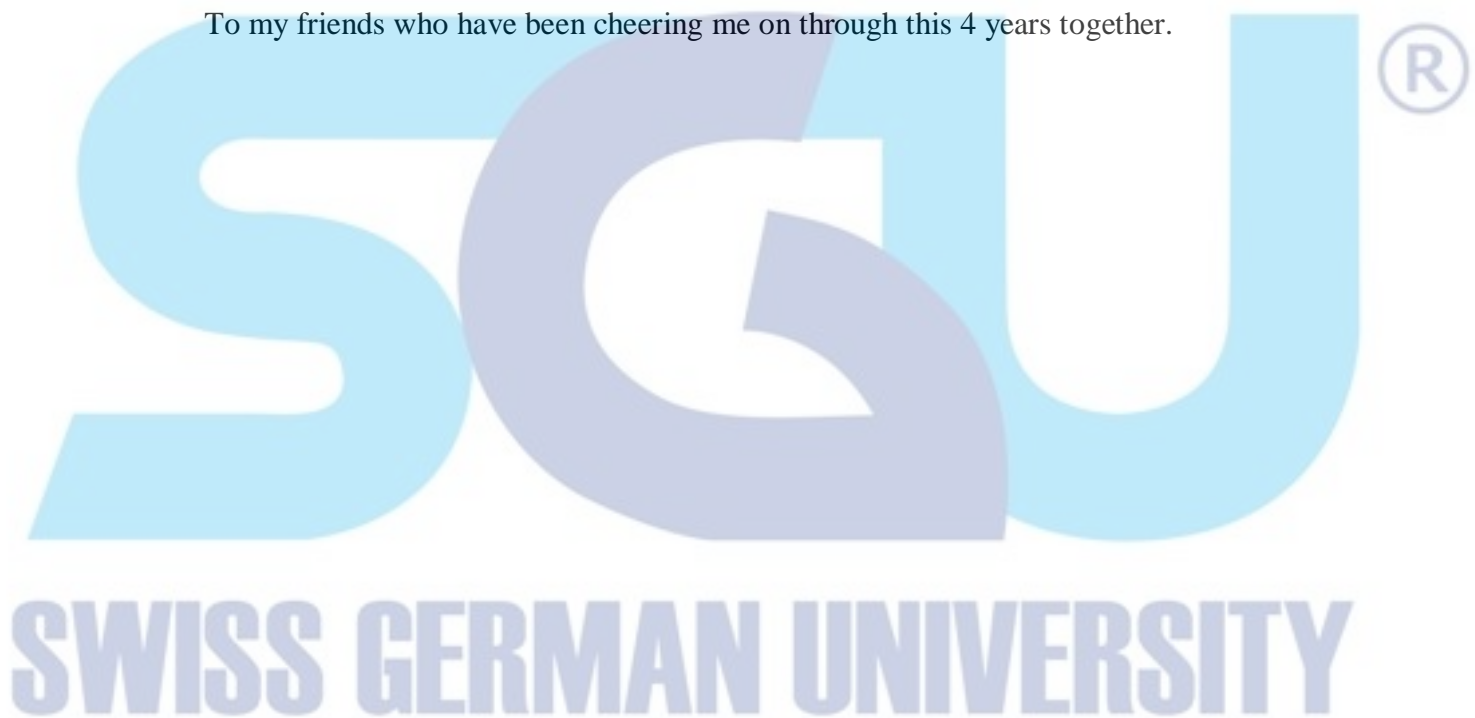


DEDICATION

I dedicate this work for the future of the country I loved: Indonesia.

To my family who always given me support to finish this study both material and spiritually.

To my friends who have been cheering me on through this 4 years together.



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