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fulfilment of the requirement for the award of the

Master of / Doctor of Philosophy …………………..

Faculty’s Name (TNR 12, 1.5 spacing)

Universiti Tun Hussein Onn Malaysia

MONTH YEAR *(JKPS month)*

I hereby declare that the work in this master project report / dissertation / thesis is my own except for quotations and summaries which have been duly acknowledged

[SIGNATURE]

Student : ………………………………..……..

[ STUDENT’ NAME]

Date : ………………………………………

[SIGNATURE]

Supervisor : ………………………………………

[SUPERVISOR’S NAME]

[SIGNATURE]

Co Supervisor : ……………………………………….

[CO-SUPERVISOR’S NAME]

**DEDICATION [OPTIONAL]**

*For my beloved mother and father….*

**ACKNOWLEDGEMENT [OPTIONAL]**

The author would like to express his sincere appreciation to his supervisor, Prof. Dr. xxx for the support given throughout the duration of this research.

The cooperation given by the Department of Water Resources Johor is also highly appreciated. Appreciation also goes to everyone involved directly or indirectly towards the compilation of this thesis. Last but not least,………

ABSTRACT

Kindly provide your research abstract here (English Version).

(**TNR, 12, 1.5 SPACING**)

ABSTRAK

Kindly provide your research abstract here (English Version).

(**TNR, 12, 1.5 SPACING**)

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**LIST OF SYMBOLS AND ABBREVIATIONS**

|  |  |  |
| --- | --- | --- |
| *D,d* | - | Diameter |
| *F* | - | Force |
| *G* | - | Graviy = 9.80 m/s |
| *I* | - | Momen of Iner |
| *l* | - | Length |
| *m* | - | Mass |
| *P* | - | Pressure |
| *Q* | - | Rate of Flow |
| *r* | - | Radius |
| *T* | - | Torque |
| *Re* | - | Reynold Number |
| *V* | - | Velocity |
| *x* | - | Shift |
| *Z* | - | High |
| *UTHM* | - | Universiti Tun Hussein Onn |
| *UNESCO* | - | United Nation for Education, Science and Cultural Organization |

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**CHAPTER 1**

**TITLE OF CHAPTER**

**1.1 Main Heading**

First sentence in a first paragraph of a chapter begins from the left margin and justify.

First sentence of a second paragraph of a chapter begins ONE TAB from the left margin and justify.

**1.1.1 Subheading No 1**

First sentence in a first paragraph of a sub-title begins from the left margin and justify.

First sentence of a second paragraph of a chapter begins ONE TAB from the left margin and justify.

**1.1.1.1 Tertiary heading no.1 (Under Subheading no. 1)**

First sentence in a first paragraph of a sub-title begins from the left margin and justify.

First sentence of a second paragraph of a chapter begins ONE TAB from the left margin and justify.

**1.1.2 Subheading No.2**

**1.1.2.1 Tertiary heading no. 2 (Under Subheading no. 2)**

Tables in the thesis must be numbered in Arabic numerals, linked to the respective chapter number (e.g., the third table in Chapter 4 is labeled "Table 4.3"). The caption must be appears above the table, justified, without a period at the end, and single-spaced between lines for each table and the text within the table, should written using the font size used in the document (as in the thesis writing guideline) and single spaced between the lines. If a table spans multiple pages, denote its continuation on the subsequent page as, for instance, "Table 4.3 (continued)."

**Table 4.3:** Number of Reviewed Journals with respect to Publication Source

|  |  |  |  |
| --- | --- | --- | --- |
| **Number of reviewed journals with respect to publication source** | | | |
| **Name of journal** | **No of articles** | **Name of journal** | **No of articles** |
| A Journal of the Decision Science Institutes | 1 | Journal of Business Marketing Management | 1 |
| Academy of Management Journal | 1 | Journal of Business Research | 6 |
| Academy of Entrepreneurship Journal | 1 | Journal of Business and Industrial Marketing | 1 |
| Annals of Regional Science | 4 | Journal of Business and Venturing | 3 |
| Asia Pacific Journal of Management | 1 | Journal of Commercial Biotechnology | 2 |
| Asian Journal of Technology Innovation | 1 | Journal of Innovation Management | 1 |
| Asian Business & Management | 1 | Journal of Innovation and Entrepreneurship | 1 |
| Asian Social Science | 1 | Journal of Operations Management | 1 |
| African Journal of Business Management | 2 | Journal of Product and Brand Management | 2 |
| Baltic Journal of Management | 1 | Journal of Management Studies | 4 |
| British Journal of Management | 1 | Journal of Management & Organization | 1 |
| Creativity and Innovation Management | 1 | Journal of Communication | 1 |
| Creativity Research Journal | 1 | Journal of Engineering and Technology Management | 3 |
| European Journal of Innovation Management | 2 | Journal of Small and Business Management | 1 |
| European Journal of Marketing | 1 | Journal of Technology Transfer | 12 |
| Expert Systems with Application | 2 | Long Range Planning | 2 |
|  |  |  |  |
| **Table 4.3**: Continued | | | |
| Industrial Marketing Management | 14 | MIT Sloan Management | 1 |
| Innovation-Management Policy & Practice | 3 | Operation Management of Resources | 1 |
| International Journal of Organizational Innovation | 2 | Organizational Studies | 2 |
| International Business Journal | 1 | Organizational Dynamics | 1 |
| International Business Review | 2 | Production Planning & Control | 1 |
| International Journal of Business and Management | 1 | PLOS One | 1 |
| International Journal of Business Innovation and Research | 1 | R&D Management | 6 |
| International Journal of Innovation Management | 1 | Research Policy | 27 |
| International Journal of Electronic Business Management | 1 | Sciencetometrics | 1 |
| International Journal of Engineering Innovation & Management | 2 | Science and Public Policy | 5 |
| International Journal of Research and Marketing | 1 | Science Technology and Society | 1 |
| International Journal of Technology Management | 1 | Strategic Management Journal | 5 |
| International Small Business Journal | 2 | Strategic Change | 1 |
| Industrial and Corporate Change | 3 | Technovation | 24 |
| Journal of Marketing | 2 | Technological and Economic development of Economy | 1 |
| Journal of Economics & Management Strategy | 1 | Technology Analysis & Strategic Management | 2 |
| Journal of International Marketing | 1 | Technology and Investment | 1 |
| Journal of International Management | 1 | Technology Forecasting & Social Change | 6 |
| Journal of Product Innovation Management | 17 | The International Journal of Human Resource Management | 2 |
| Journal of Purchasing and Supply Chain | 1 | World Journal of Entrepreneurship, Management & Sustainable Development | 1 |
| **Total** | 88 |  | 138 |

When a table is sourced, provide the source at the end of its caption. Tables should only be included after citation in the text. Additionally, all tables referenced in the text must be listed in the list of tables.

**Table 4.4**: Comparison between lab and simulation computer result (Gist, Schwoerer and Rosen, 1989)

|  |  |  |
| --- | --- | --- |
| **Length Ratio** | **Lab Experiment in Average** | **Comparison Simulation in**  **Average** |
| 0.250 | 0.46 | 0.560 |
| 0.375 | 0.63 | 0.738 |
| 0.500 | 0.75 | 0.861 |
| 0.625 | 0.83 | 0.939 |
| 0.750 | 0.88 | 0.981 |
| 0.875 | 0.93 | 0.997 |
| 1.000 | 1.00 | 1.000 |

Figures in the thesis must be numbered in Arabic numerals, linked to the respective chapter number (e.g., the third figure in Chapter 4 is labeled "Figure 4.3"). The caption must be appearing below the figure, justified, and single-spaced between lines for each figure and the text within the figure, should written using the font size used in the document (as in thesis writing guideline) and single spaced between the lines.

If the table is arranged horizontally, the following is an example of the format for a horizontal table

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 4.19: Correlation and Discriminant Validity | | | | | | | | | | | | | |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1. Degree of Innovation Uncertainty | **0.801** |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. Degree of Innovation Asset Specificity | 0.460 | **0.804** |  |  |  |  |  |  |  |  |  |  |  |
| 3. Information Sharing | 0.658 | 0.518 | **0.790** |  |  |  |  |  |  |  |  |  |  |
| 4. Trust | 0.454 | 0.298 | 0.668 | **0.777** |  |  |  |  |  |  |  |  |  |
| 5. Business Understanding | 0.657 | 0.644 | 0.753 | 0.589 | **0.865** |  |  |  |  |  |  |  |  |
| 6. Communication | 0.662 | 0.486 | 0.765 | 0.637 | 0.825 | **0.862** |  |  |  |  |  |  |  |
| 7. Commitment | 0.658 | 0.552 | 0.758 | 0.618 | 0.827 | 0.793 | **0.852** |  |  |  |  |  |  |
| 8. Decision Synchronization | 0.630 | 0.578 | 0.783 | 0.713 | 0.814 | 0.784 | 0.814 | **0.935** |  |  |  |  |  |
| 9. Resource Sharing | 0.685 | 0.548 | 0.765 | 0.570 | 0.729 | 0.695 | 0.759 | 0.832 | **0.844** |  |  |  |  |
| 10. Absorptive Capacity | 0.678 | 0.550 | 0.562 | 0.565 | 0.651 | 0.681 | 0.698 | 0.699 | 0.612 | **0.839** |  |  |  |
| 11. Disseminative Capacity | 0.612 | 0.437 | 0.672 | 0.549 | 0.668 | 0.644 | 0.752 | 0.767 | 0.717 | 0.689 | **0.851** |  |  |
| 12. Market Performance | 0.570 | 0.365 | 0.612 | 0.516 | 0.527 | 0.502 | 0.585 | 0.646 | 0.675 | 0.573 | 0.592 | **0.871** |  |
| 13. Innovation Survival | 0.658 | 0.354 | 0.623 | 0.668 | 0.534 | 0.587 | 0.643 | 0.662 | 0.589 | 0.610 | 0.622 | 0.715 | **0.764** |

*Note: Values in the diagonal (in bold) represent the square root of the AVE while off-diagonals are correlations*

**Degree of Innovation Asset Specificity**

**Innovation Commercialization Collaboration (COLLABORATION**)

**R2 = 0.454**

**Market Performance**

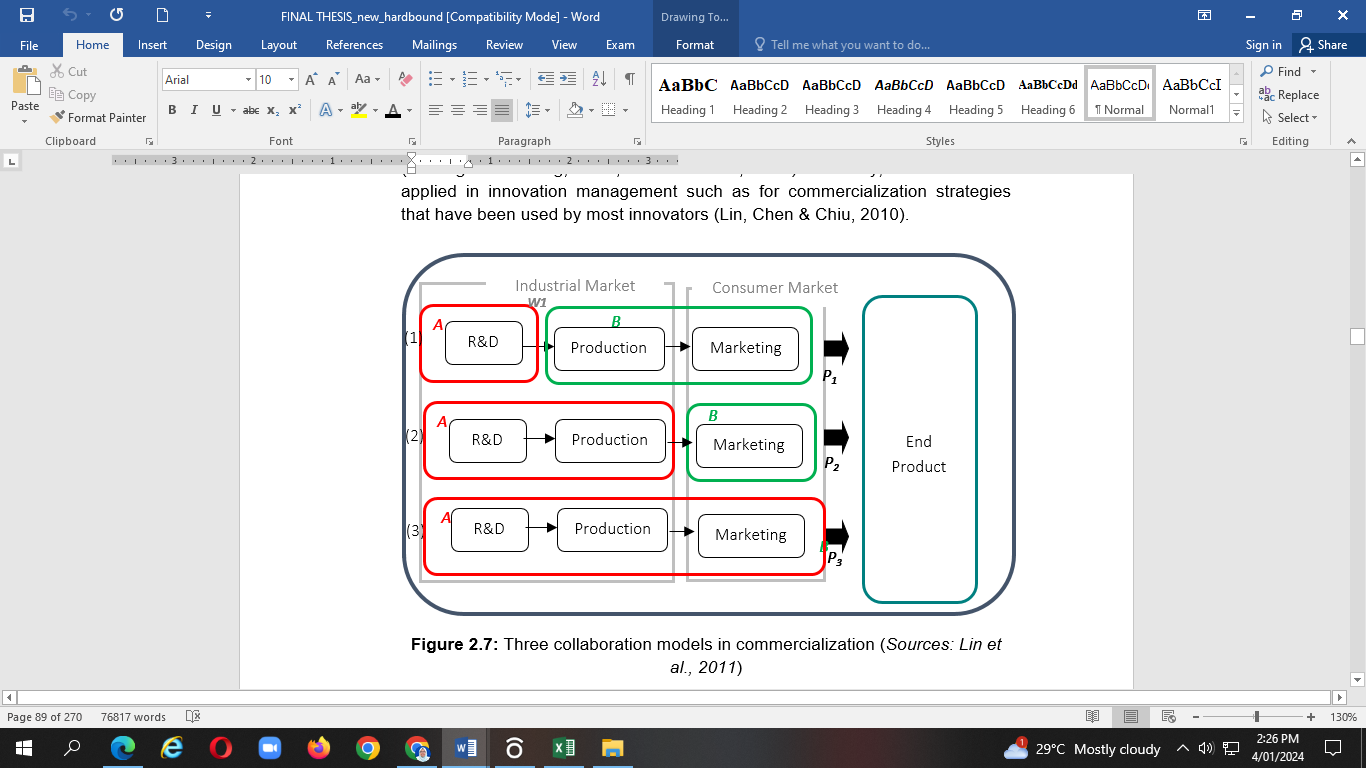
**R2 = 0.427**

**β = 0.350**

**β = 0.653**

**Figure 5.9:** Mediating effect of (AS🡪COLLABORATION🡪MP)

When a figure is sourced, provide the source at the end of its caption. Figure should only be included after citation in the text. Additionally, all figures referenced in the text must be listed in the list of figures.



**Figure 2.7**: Three collaboration models in commercialization (Sources: Lin *et al*., 2011)

If the figure is arranged horizontally, the following is an example of the format for a horizontal figure.

**Figure 1.3:** Concetual Framework of the Study

Mathematical equations must be written by employing the equation editor in **MS WORD** and be numbered using Arabic numerals. Equation numbers must be written at the end of the equation and linked to the chapter number. For example, the numbers (Equation / Eq. 4.3) and (Equation / Eq. 4.4) are given to the third and fourth equations respectively that appear in Chapter 4, as follows:

(Equation / Eq. 4.3)

(Equation / Eq. 4.4)

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**APPENDIX A**

**QUESTIONNAIRE**

**QUESTIONNAIRE**

Dear Participant,

Thank you for taking time to participate in this research study that examines a significant topic related to the field of management and is part of the requirements of the doctorate degree from Universiti Tun Hussein Onn Malaysia.

PURPOSE OF RESEARCH STUDY. Given the increasing importance of commercialization of new invention products of any economy, this research study is timely. In this research study, approximately 200 of the owner/managers of firm will be invited to complete a survey questionnaire. The research study endeavours to investigate the impact of commercialization collaboration on commercialization performance between innovator and firms. The outcomes will be benefit firms, academic, practitioners, policy makers and practitioners nationally and internationally.

INSTRUCTIONS. The questions are preceded with instructions on how to answer them. Please read the instructions and make your selection as requested. The survey questionnaire should take approximately 15-20 minutes to complete. The completed survey questionnaire can be returned in the self-addressed envelope provided or the researcher will collect the completed survey questionnaire in person after one week.

SUMMARY OF RESULTS. If you would like to receive a summary of the results, please include your information below:

Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Email:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I appreciate your participation and cooperation in this research study. This research is for an academic purpose only. The information and results will be handled anonymously and will not be provided to a 3rd party.

Thank you again in advance

Kindly regards,

**LIST OF PUBLICATIONS**

Abdul Hamid, N.; Abd Rahman, A., (2014) "A systematic literature review on the success factor of innovation commercialization performance," *Technology Management and Emerging Technologies (ISTMET), 2014 IEEE International Symposium*, vol., no., pp.199,204, 27-29 May 2014.

Abdul Hamid, N., Abd. Rahman, A., Ali, N. A., & Jaharuddin, N. S. (2014). Technology Commercialization: Concept And Commercialization Collaborative Network,. In N. S. Jaharuddin, & S. Ibrahim, *Management Science A Collection Of Readings* (pp. 64-76). Universiti Putra Press.

**VITAE**

A brief explanation about the Student’s background