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A DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT OF
THE REQUIREMENTS FOR THE DEGREE OF DOCTOR OF
PHILOSOPHY (ENGINEERING AND TECHNOLOGY)
SIRINDHORN INTERNATIONAL INSTITUTE OF TECHNOLOGY
THAMMASAT UNIVERSITY

ACADEMIC YEAR 2016

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Member and Co-advisor

(International Institute, Ph.D.)

Member

(Assistant Professor International Institute, Ph.D.)

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Author Mr. International Institute

Degree Doctor of Philosophy (Engineering and
Technology)

Faculty/University Sirindhorn International Institute of Technology/
Thammasat University

Thesis Advisor Associate Professor International Institute, Ph.D.

Thesis Co-Advisor Samad Rakdee, Ph.D.

Academic Years 2016

ABSTRACT

Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology, Master of Engineering Program in Information and Communication Technology for Embedded Systems, and Master of Engineering Program in Logistics and Supply Chain Systems Engineering. It also offers a Master of Science Program in Engineering and Technology and Doctor of Philosophy Program in Engineering and Technology.

Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology, Master of Engineering Program in Information and Communication Technology for Embedded Systems, and Master of Engineering Program in Logistics and Supply Chain Systems Engineering. It also offers a Master of Science Program in Engineering and Technology and Doctor of Philosophy Program in Engineering and Technology. Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering

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Keywords: Periodic solids, Effective properties, Extreme properties, Design automation, Material design

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ACKNOWLEDGEMENTS

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LIST OF SYMBOLS/ABBREVIATIONS

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Symbols/Abbreviations

Terms

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SIIT

Sirindhorn International Institute of
Technology

TU

Thammasat University

CHAPTER 1

INTRODUCTION

Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology, Master of Engineering Program in Information and Communication Technology for Embedded Systems, and Master of Engineering Program in Logistics and Supply Chain Systems Engineering.

1.1 Main heading

Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology, Master of Engineering Program in Information and Communication Technology for Embedded Systems, and Master of Engineering Program in Logistics and Supply Chain Systems Engineering (Chen & Winterbone, 2014).

Garlotta (2001) stated that “Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology, Master of Engineering Program in Information and Communication Technology for Embedded Systems, and Master of Engineering Program in Logistics and Supply Chain Systems Engineering” (p.63).

1.2 Main heading

A study performed by Tokiwa and Calabia (2006) showed that Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology, Master of Engineering Program in Information and Communication Technology for Embedded Systems, and Master of Engineering Program in Logistics and Supply Chain Systems Engineering.

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Citing References in Text at The End of a Sentence: One Work by Multiple Authors

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Citing References in Text: One Work by One Author

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Citing References in Text: Direct Quotation of Source in One Work by One Author

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1.2.1 Sub-heading 1

Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology, Master of Engineering Program in Information and Communication Technology for Embedded Systems, and Master of Engineering Program in Logistics and Supply Chain Systems Engineering (Bocchini & Frache, 2013; Smith, 2005).

1.2.1.1 Sub-heading 2

Prokop, Helling, Hahn, Udomkaewkanjana and Rehm (2008) demonstrated Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology, Master of Engineering Program in Information and Communication Technology for Embedded Systems, and Master of Engineering Program in Logistics and Supply Chain Systems Engineering.

1.2.1.2 Sub-heading 2

Montanari et al. (2003) found Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology, Master of Engineering Program in Information and Communication Technology for Embedded Systems, and Master of Engineering Program in Logistics and Supply Chain Systems Engineering.

Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology, Master of Engineering Program in Information and Communication Technology for Embedded Systems, and Master of Engineering Program in Logistics and Supply Chain Systems Engineering.

1.3 Main heading

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Citing References in Text: One Work by Multiple Authors Whereas Name of Authors Appear as Part of the Narrative

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Citing References in Text: One Work has Six or More Authors

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Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology, Master of Engineering Program in Information and Communication Technology for Embedded Systems, and Master of Engineering Program in Logistics and Supply Chain Systems Engineering.

CHAPTER 2

REVIEW OF LITERATURE

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Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology. Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs.

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2.2 Main heading

Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology.

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2.2.1 Sub-heading 1

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Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology. Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs.

Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering

Technology. Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs.

2.2.1.1 Sub-heading 2

Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology.



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2.2.1.2 Sub-heading 2

Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology. Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs.

Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology. Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs.



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2.3 Main heading

Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology.

CHAPTER 3

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3.1 Main heading

Sirindhorn International Institute of Technology (SIIT) offers three master of engineering programs, namely, Master of Engineering Program in Engineering Technology, Master of Engineering Program in Information and Communication Technology for Embedded Systems, and Master of Engineering Program in Logistics and Supply Chain Systems Engineering:

- a. Sirindhorn International Institute of Technology (SIIT) Sirindhorn International Institute of Technology (SIIT),
- b. Sirindhorn International Institute of Technology (SIIT),
- c. Sirindhorn International Institute of Technology (SIIT).

Data of Sirindhorn International Institute of Technology (SIIT) are given in Table 3.1.

Table 3.1 Sirindhorn International Institute of Technology (SIIT).

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3.1.1 Sub-heading 1

The model of Sirindhorn International Institute of Technology (SIIT) is shown in Figure 3.1.

Equation (3.1) shows Sirindhorn International Institute of Technology (SIIT) Sirindhorn International Institute of Technology (SIIT) Sirindhorn International Institute of Technology (SIIT). The parameters are given as

$$\square_{\square}(\square) = \square_{\square}(\square) - \square_{\square}(\square) \quad (3.2)$$

$$\square_{\square}^{\square}(\square) = \square_{\square}^{\square}(\square) - \square_{\square}^{\square}(\square). \quad (3.3)$$

Equation (3.2) and Equation (3.3) are Sirindhorn International Institute of Technology (SIIT) Sirindhorn International Institute of Technology (SIIT) Sirindhorn International Institute of Technology (SIIT).

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APPENDICES

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APPENDIX A
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APPENDIX B

APPENDIX TITLE

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BIOGRAPHY

Name	Mr. International Institute
Date of Birth	March 31, 1980
Education	2009: Bachelor of Engineering (Chemical Engineering) Sirindhorn International Institute of Technology Thammasat University
	2010: Master of Science (Environmental Science) Thammasat University

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Institute, I., Foo, M. E., & Gopinath, S. C. B. (2017). Feasibility of graphene in biomedical applications. *Biomedicine & Pharmacotherapy*, 94(Supplement C), 354-361.

Institute, I., Hanot, C. C., Choi, Y. S., Anani, T. B., Soundarrajan, D., & David, A. E. (2015). Effects of iron-oxide nanoparticle surface chemistry on uptake kinetics and cytotoxicity in CHO-K1 cells. *International Journal of Molecular Sciences*, 17(1), 226-230.

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