



DISSERTATION TITLE DISSERTATION TITLE

DISSERTATION TITLE DISSERTATION

TITLE

}

}

}

}

BY

}

INTERNATIONAL INSTITUTE

}

}

}

}

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

Commented [R1]: This template is full of helpful comments explaining the different parts of the template, things you need to adjust for your particular manuscript, and tips for working with the template. Delete all these comments before turning your manuscript in to your committee or AS&R Office.

Commented [r2R1]: Margins
The basic margin settings are 1" right and bottom and 1.5" top and left. All materials throughout the manuscript must fit within these margins.

Commented [r3]: Times New Roman, 16 Pt, Bold, Uppercase.

Commented [r6]: Times New Roman, 14 Pt, Bold, Uppercase.

Commented [R4]: Only the names on your passport and IS have to match to avoid issues with Office of the registrar, Thammasat University.

Commented [R5R4]: Name and Surname without Prefix.

Commented [R7]: Blank

Commented [R8]: If you have written a thesis, this word should be changed to "THESIS."

Commented [R9]: The full name of the degree, you need to refer the information on your transcript or you can check at AS&R website> Graduation Requirement.

Commented [R10]: Year of the semester you will graduate.

Commented [H11]: Times New Roman, 14 Pt, Bold, Uppercase.

THAMMASAT UNIVERSITY
SIRINDHORN INTERNATIONAL INSTITUTE OF TECHNOLOGY

Commented [R19]: Times New Roman, 12 Pt, Regular, Uppercase.

DISSERTATION

Commented [R12]: Blank

Commented [R13]: If you have written a thesis, this word should be changed to "THESIS."

BY

INTERNATIONAL INSTITUTE

Commented [R14]: Name and Surname without Prefix.

ENTITLED

DISSERTATION TITLE DISSERTATION TITLE
DISSERTATION TITLE DISSERTATION TITLE

Commented [R15]: Blank

was approved as partial fulfillment of the requirements for
the degree of Doctor of Philosophy (Engineering and Technology)

Commented [R16]: The full name of the degree, you need to refer the information on your transcript.

on July 8, 2017

Commented [R17]: Month, Date and Year of the Thesis final defense.

Chairperson

(Assistant Professor International Institute, Ph.D.)

Member and Advisor

(Associate Professor International Institute, Ph.D.)

Member and Co-advisor

(International Institute, Ph.D.)

Member

(Assistant Professor International Institute, Ph.D.)

Director

(Professor Pruettha Nanakorn, D.Eng.)

Commented [R18]: The full name of the committee member, you need to refer the information on your transcript or you can check at AS&R website-> Graduation Requirement.

(1)

Dissertation Title DISSERTATION TITLE DISSERTATION
TITLE DISSERTATION TITLE
DISSERTATION TITLE

Author International Institute

Degree Doctor of Philosophy (Engineering and
Technology)

Faculty/University Sirindhorn International Institute of Technology/
Thammasat University

Dissertation Advisor Associate Professor International Institute, Ph.D.

Dissertation Co-Advisor Samad Rakdee, Ph.D.

Academic Years 2016

Commented [H20]: If you have written a thesis, this word should be changed to "Thesis."

Commented [R21]: Name and Surname without Prefix.

Commented [H22]: If you have written a thesis, this word should be changed to "Thesis."

Commented [H23]: If you have written a thesis, this word should be changed to "Thesis."

Commented [R24]: Year of the semester you will graduate.

Commented [R25]: Blank

Commented [R26]: Times New Roman, 14 Pt, Bold, Uppercase.

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.

Commented [r27]: Indentation, indent the entire text from the left margin, 0.5"

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

Commented [r28]: Do not add Line break when creating a new paragraph.

Commented [r29]: Times New Roman, 12 Pt, Regular, Line spacing 1.5.

(2)

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.

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

Commented [R30]: Blank

Commented [W31]: Times New Roman, 12 Pt, Bold, Sentence case.

ACKNOWLEDGEMENTS

}

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 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. It also offers a Master of Science Program in Engineering and Technology and Doctor of Philosophy Program in Engineering and Technology.

}

}

International Institute

Commented [R32]: Times New Roman, 14 Pt, Bold, Uppercase.

Commented [R33]: Blank

Commented [W34]: Indentation, indent the entire text from the left margin, 0.5"

Commented [W35]: Indentation, indent the entire text from the left margin, 0.5"

Commented [r36]: Indentation, indent the entire text from the left margin, 0.5"

Commented [R37]: Blank

Commented [R38]: Name and Surname without Prefix. must be placed at the end of the page, left margin.

(4)

TABLE OF CONTENTS

Commented [r39]: Times New Roman, 14 Pt, Bold, Uppercase.

	Page
ABSTRACT	(1)
ACKNOWLEDGEMENTS	(2)
LIST OF TABLES	(8)
LIST OF FIGURES	(9)
LIST OF SYMBOLS/ABBREVIATIONS	(10)
CHAPTER 1 INTRODUCTION	
1.1 Sirindhorn International Institute of Technology	1
1.2 Sirindhorn International Institute of Technology	3
1.3 Sirindhorn International Institute of Technology	3
CHAPTER 2 REVIEW OF LITERATURE	5
2.1 Sirindhorn International Institute of Technology	5
2.2 Sirindhorn International Institute of Technology	7
2.3 Sirindhorn International Institute of Technology	7
2.4 Sirindhorn International Institute of Technology	8
CHAPTER 3 INSERT TOPIC	10
3.1 Sirindhorn International Institute of Technology	10
3.2 Sirindhorn International Institute of Technology	12
3.3 Sirindhorn International Institute of Technology	12
3.3.1 Sirindhorn International Institute of Technology Sirindhorn International Institute of Technology	14
3.3.2 Sirindhorn International Institute of Technology Sirindhorn International Institute of Technology	16

Commented [R40]: Page numbers are placed in the upper right corner.

Commented [R41]: Blank

Commented [R42]: Page numbers for these pages must be placed in the bracket.

Commented [r43]: (IF any)

Commented [r44]: Times New Roman, 12 Pt, Regular, Uppercase.

Commented [r45]: Times New Roman, 12 Pt, Regular, Sentence case.
•Indentation, indent the entire text from the left margin, 0.5"

Commented [R46]: Blank

Commented [R47]: Blank

	(5)
3.4 Sirindhorn International Institute of Technology Sirindhorn	18
3.4.1 Sirindhorn International Institute of Technology Sirindhorn	18
3.4.1.1 Sirindhorn International Institute of Technology Sirindhorn	18
3.4.1.2 Sirindhorn International Institute of Technology Sirindhorn	19
3.4.1.3 Sirindhorn International Institute of Technology Sirindhorn	19
International Institute of Technology Sirindhorn	19
3.5 Sirindhorn International Institute of Technology Sirindhorn International	21
Institute of Technology	21
3.5.1 Sirindhorn International Institute of Technology	21
3.5.2 Sirindhorn International Institute of Technology	21
}	
CHAPTER 4 INSERT TOPIC	22
4.1 Sirindhorn International Institute of Technology	22
4.1.1 Sirindhorn International Institute of Technology	22
4.1.2 Sirindhorn International Institute of Technology	23
4.1.2.1 Sirindhorn International Institute of Technology	27
4.1.2.2 Sirindhorn International Institute of Technology	30
4.2 Sirindhorn International Institute of Technology	32
4.2.1 Sirindhorn International Institute of Technology	41
4.2.1.1 Sirindhorn International Institute of Technology	45
4.2.2 Sirindhorn International Institute of Technology	45
4.2.2.1 Sirindhorn International Institute of Technology	50
4.2.3 Sirindhorn International Institute of Technology	56

Commented [r48]: Margins:
When adding a new line, make sure to align the next line in the margins correctly.

Commented [r49]: Page number:
The page numbers always on the end of content.

Commented [R50]: Blank

	(6)
CHAPTER 5 INSERT TOPIC	62
5.1 Sirindhorn International Institute of Technology	62
5.2 Sirindhorn International Institute of Technology	63
REFERENCES	64
APPENDICES	
APPENDIX A	65
APPENDIX B	66
BIOGRAPHY	67

Commented [R51]: Blank

Commented [R52]: If there is only one appendix, this word should be changed to "Appendix".

Commented [R53]: Blank

(7)

LIST OF TABLES



Tables	Page
2.1 Sirindhorn International Institute of Technology	11
3.1 Sirindhorn International Institute of Technology Sirindhorn International Institute of Technology	22
4.1 Sirindhorn International Institute of Technology	29
4.2 Sirindhorn International Institute of Technology	35
4.3 Sirindhorn International Institute of Technology	36
4.4 Sirindhorn International Institute of Technology	43
5.1 Sirindhorn International Institute of Technology	48
5.2 Sirindhorn International Institute of Technology	55
5.3 Sirindhorn International Institute of Technology	58

Commented [r54]: Times New Roman, 14 Pt, Bold, Uppercase.

Commented [R55]: Blank

Commented [R56]: Tables Numbering

Tables numbering indicates the number of the tables are contained in. Thus, all the tables in this chapter begin with "3" to indicate that the section is located in Chapter 3. As the tables levels descend in order, the numbers grow by one additional digit for each level, showing the relationship between the groups of tables.

Commented [r57]: Times New Roman, 12 Pt, Regular, Sentence case.

LIST OF FIGURES

Figures	Page
3.1 Sirindhorn International Institute of Technology	13
3.2 Sirindhorn International Institute of Technology	15
3.3 Sirindhorn International Institute of Technology	17
4.1 Sirindhorn International Institute of Technology	23
4.2 Sirindhorn International Institute of Technology	24
4.3 Sirindhorn International Institute of Technology	26
4.4 Sirindhorn International Institute of Technology Sirindhorn International Institute of Technology	27
4.5 Sirindhorn International Institute of Technology	28

Commented [r58]: Times New Roman, 14 Pt, Bold, Uppercase.

Commented [R59]: Blank

Commented [R60]: Figures Numbering
Figures numbering indicates the number of the figures are contained in. Thus, all the figures in this chapter begin with "3" to indicate that the section is located in Chapter 3. As the figures levels descend in order, the numbers grow by one additional digit for each level, showing the relationship between the groups of figures.

Commented [r61]: Times New Roman, 12 Pt, Regular,
Sentence case.

LIST OF SYMBOLS/ABBREVIATIONS

Commented [r62]: Times New Roman, 14 Pt, Bold, Uppercase.



Commented [R63]: Blank

Symbols/Abbreviations

Terms

Commented [r64]: Times New Roman, 12 Pt, Bold, Sentence case.

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.

Commented [r65]: Times New Roman, 14 Pt, Bold, Uppercase.

Commented [R66]: Blank

Commented [r67]: Times New Roman, 12 Pt, Regular, Sentence case, Indent 0.5, Line spacing 1.5.

Commented [R68]: Blank

Commented [r69]: Times New Roman, 12 Pt, Bold, Sentence case

Commented [r70]: This is an example on how to write a reference in the content.

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

When a work has two authors, cite both surnames and the year of publication in parentheses. In parenthetical material, join the names by an ampersand (&) and separated a year by a comma (,).

Citing References in Text: One Work by One Author

If the name of the author appears as part of the narrative, cite the surname of the author and the year of publication in parentheses or at the appropriate point.

Commented [PP71R70]:

Commented [W72]: Do not add line break when creating a new paragraph.

Commented [PP73]: This is an example on how to write a reference in the content.

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

When reproduce words with directly quoted from another's work, cite the surname of the author included with the year of publication in parentheses. Enclose the quoted passage with quotation marks (“ ”) and provide the specific page citation in parentheses.

Commented [R74]: Blank

Commented [r75]: This is an example on how to write a reference in the content.

Citing Reference in Text: One Work by Two Authors in Part of the Narrative

Cite the surname of the authors (do not include suffixes such as *Jr.*) and join the surnames by and, the year of publication be inserted in the text in the parentheses () or at the appropriate point.

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

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

Commented [PP76]: This is an example on how to write a reference in the content.

Citing References in Text at The End of a Sentence: Two or More Works Within the Same Parentheses

List two or more works by different authors who are cited within the same parentheses in alphabetical order by the first author's surname, included the year of publications. Separate the citations with semicolons (;).

Commented [R77]: Blank

Commented [r78]: This is an example on how to write a reference in the content.

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

When a work has three, four, or five authors, cite all surname of authors separated by comma (,) and the year of publication be inserted in the text at the appropriate point or in the parentheses ().

Commented [R79]: Blank

Commented [r80]: This is an example on how to write a reference in the content.

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

When work has Six or More authors, cite only the surname of the First author followed by et al. (with a period after al) and the year of publication in parentheses.

Commented [R81]: Blank

Technology for Embedded Systems, and Master of Engineering Program in Logistics and Supply Chain Systems Engineering.

CHAPTER 2

REVIEW OF LITERATURE

Commented [R82]: Times New Roman, 14 Pt, Bold, Uppercase.

Commented [R83]: Blank

2.1 Main heading

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.

Commented [R84]: Blank

2.2 Main heading

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

Commented [R85]: Blank

2.2.1 Sub-heading 1

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

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.



Commented [R86]: Blank

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.



Commented [R87]: Blank

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

INSERT TOPIC

Commented [r88]: Times New Roman, 14 Pt, Bold, Uppercase.

Commented [R89]: Blank

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:

- Sirindhorn International Institute of Technology (SIIT) Sirindhorn International Institute of Technology (SIIT),
- Sirindhorn International Institute of Technology (SIIT),
- 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).

Item	Sirindhorn International Institute of Technology			
	International 1		International 2	
1	15.30	11.20	25.20	11.15
2	15.40	15.20	15.10	21.15
3	15.15	13.20	16.22	18.30
4	15.24	14.20	18.45	19.47

Commented [R90]: Tables Numbering
Tables numbering indicates the number of the tables are contained in. Thus, all the tables in this chapter begin with "3" to indicate that the section is located in Chapter 3. As the tables levels descend in order, the numbers grow by one additional digit for each level, showing the relationship between the groups of tables.

Commented [r91]: Always place your tables numbering and tables title at the top of tables with the left margin, Sentence case.

Commented [r92]: Tables must be numbered and each must be mentioned in the text in numerical order.

Commented [R93]: Blank

Commented [r94]: Always align your table with the left margin.

3.1.1 Sub-heading 1

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

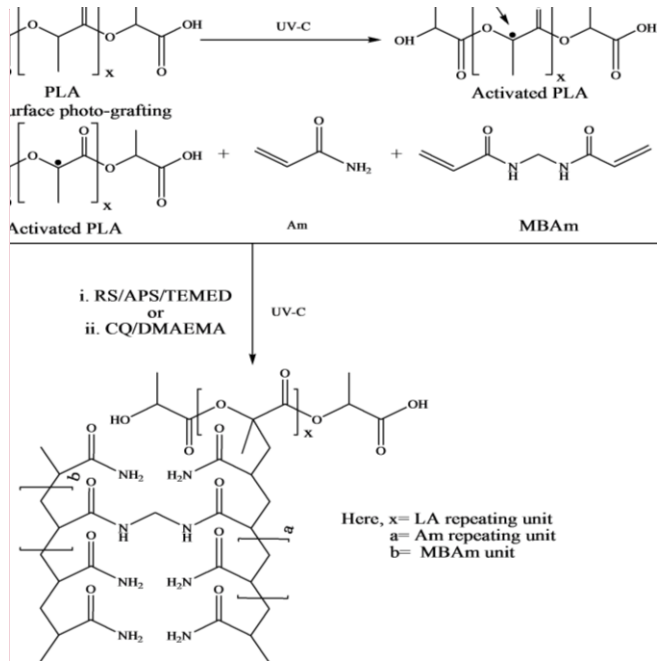


Figure 3.1 Sirindhorn International Institute of Technology (SIIT).

Sirindhorn International Institute of Technology (SIIT) Sirindhorn International Institute of Technology (SIIT) Sirindhorn International Institute of Technology (SIIT).

Sirindhorn International Institute of Technology (SIIT) Sirindhorn International Institute of Technology (SIIT) Sirindhorn International Institute of Technology (SIIT) Sirindhorn International Institute of Technology (SIIT) Sirindhorn International Institute of Technology (SIIT) Sirindhorn International Institute of Technology (SIIT).

The moving average equation for replacing the outliers is given by the following equation:

$$L_t^p(d) = \int_0^L \sigma_{ij}^n(x) \epsilon_{ij}(x) \Delta_t^p(d) dx \quad (3.1)$$

where $L_t^p(d)$ is the estimated load for the outlier detected at time period t of day d , and n is set to 2.

Commented [r95]: Always align your figure with the center margin and no border around the edges.

Commented [r96]: Always place your tables numbering and tables title at the top of tables with the center margin, Sentence case.

Commented [R97]: Blank

Commented [R98]: Blank

Commented [R99]: Equations
If your thesis or dissertation includes equations, the equation should be aligned to the left margin and the equations numbering and be aligned to the right margin.

Commented [r100]: [Equations Numbering](#)
Equations numbering indicates the number of the Equations are contained in. Thus, all the Equations in this chapter begin with "3" to indicate that the section is located in Chapter 3.

Commented [R101]: Blank

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

$$e_t(d) = L_t(d) - F_t(d) \quad (3.2)$$

$$e_t^p(d) = L_t^p(d) - F_t^p(d). \quad (3.3)$$

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).

Commented [R102]: Blank

REFERENCES

- Bocchini, S., & Frache, A. (2013). Comparative study of filler influence on polylactide photooxidation. *Express Polymer Letters*, 7(5), 431-442. doi: 10.3144/expresspolymlett.2013.40
- Chen, H., & Winterbone, D. E. (2014). A one-dimensional performance model for turbocharger turbine under pulsating inlet condition A2. *Proceedings of 11th International Conference on Turbochargers and Turbocharging* (pp. 113-123). Oxford, England: Woodhead Publishing.
- Garlotta, D. (2001). A literature review of poly (lactic acid). *Journal of Polymers and the Environment*, 9(2), 63-84.
- Montanari, L., Cilurzo, F., Selmin, F., Conti, B., Genta, I., Poletti, G., . . . Valvo, L. (2003). Poly(lactide-co-glycolide) microspheres containing bupivacaine: Comparison between gamma and beta irradiation effects. *Journal of Controlled Release*, 90(3), 281-290. doi: 10.1016/S0168-3659(03)00153-6.
- Prokop, A., Helling, H. J., Hahn, U., Udomkaewkanjana, C., & Rehm, K. E. (2005). Biodegradable implants for pipkin fractures. *Clinical Orthopaedics and Related Research*, 12(32), 226-233.
- Smith, R. (2005). *Biodegradable polymers for industrial applications*. Florida: CRC Press.
- Tokiwa, Y., & Calabia, B. P. (2006). Biodegradability and biodegradation of poly (lactide). *Applied Microbiology and Biotechnology*, 72(2), 226-233. Retrieved from [https:// www. researchgate .net/publication/6960695_Biodegradability_and_biodegradation_of_polylactide](https://www.researchgate.net/publication/6960695_Biodegradability_and_biodegradation_of_polylactide)

Commented [r103]: Times New Roman, 14 Pt, Bold, Uppercase.

Commented [R104]:
APA References Citations

Journals/ Periodicals

Author, A., Author, B., & Author, C. (Year of Publication).
Article title. *Periodical Title*, Volume (Issue), page number. doi:

Books

Author, A., Author, B., & Author, C. (Year of Publication). *Title of book*. City of Publication: Publisher.

Internet

Author, A., Author, B., & Author, C. (Year, Month Day). Title of Article [Description of form]. Retrieved from <http://www.xxx>

APPENDICES

Commented [r105]: If you have only one appendix, this word should be changed to "Appendix".

Commented [r106]: Times New Roman, 14 Pt. Bold, Uppercase.

APPENDIX A

APPENDIX TITLE

Commented [r107]: Times New Roman, 14 Pt. Bold, Uppercase.

APPENDIX B
APPENDIX TITLE

Commented [r108]: Times New Roman, 14 Pt. Bold, Uppercase.

BIOGRAPHY

Name International Institute

Education 2009: Bachelor of Engineering (Chemical Engineering)
Sirindhorn International Institute of Technology
Thammasat University

2010: Master of Science (Environmental Science)
Thammasat University

Publications

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.

Institute, I., Sinervo, A., & Arkkio, A. (2012). Modeling two-pole cage induction machine equipped with embedded force actuator. *Proceedings of 10th International Conference on Vibrations in Rotating Machinery* (pp. 765-774). New York: Woodhead Publishing.

Commented [r109]: Times New Roman, 14 Pt, Bold, Uppercase.

Commented [R110]: You may or may not have this page

Commented [R111]: Blank

Commented [R112]: Name and Surname without Prefix.

Commented [R113]: Only the publication which were officially published.

Commented [W114]: Times New Roman, 12 Pt, Regular, Sentence case.