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UNIVERSITI TEKNOLOGI MALAYSIA

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# UTM Thesis Manual



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**SPS, UTM 2015**

# THESIS MANUAL

## CHAPTER 1

### ORGANISATION OF THE THESIS

#### 1.1 Definition of a Thesis

Thesis in this manual refers to a documented report of the process followed and the results of original research conducted by a student in fulfilment of the requirement for a graduate degree. The thesis should be presented in a manner that will reflect credit on the student, the faculty, and the University. The term *thesis* used throughout this manual refers to doctoral and master's theses and dissertations as well as bachelor degree project report.

#### 1.2 Organisation of the Thesis

A thesis is made up of three main parts namely preliminary pages, text and references. These are arranged as in Table 1.1.

### 1.3 Thesis Status Declaration

Thesis status declaration is done using the Thesis Status Declaration form issued by Perpustakaan Sultanah Zanariah (PSZ), i.e. PSZ 19:16 (Pind. 1/07) form (see Appendix A). If the box CONFIDENTIAL or RESTRICTED is marked [3], a letter from the party classifying the information as confidential or restricted must be attached. The letter should clearly indicate

- (i) the reasons for classification
- (ii) the duration for classification

A typical duration for confidential or restricted classification is three (3) years. A thesis can be classified as confidential or restricted up to a maximum period of five (5) years. Examples can be seen in Appendices A and B.

If the status declaration form is not submitted or the form is incompletely filled, the University will assume the thesis is unrestricted and therefore the library will make the copies of the thesis available for distribution as published academic exchange materials.

**Table 1.1:** Arrangement of parts in a thesis

Section	SUBJECT	STATUS	EXAMPLE (APPENDIX)	NOTES
	Blank paper	-	-	-
1.3	Declaration of the Status of Thesis	compulsory	A	without page number
1.3	Letter regarding status classification of thesis	compulsory	B	needed if classified as confidential/restricted
1.4.1	Supervisor's declaration	compulsory	C1	without page number
1.4.2	Declaration on cooperation	compulsory	C2	without page number
	Certification of examination			
1.5	Title page	compulsory	D	without page number but counted as (i)

<b>Section</b>	<b>SUBJECT</b>	<b>STATUS</b>	<b>EXAMPLE (APPENDIX)</b>	<b>NOTES</b>
1.7	Declaration of originality and exclusiveness	compulsory	F	page number using Roman numeric (ii)
1.8	Dedication	optional	G	page number using Roman numeric (if any)
1.9	Acknowledgements	optional	H	page number using Roman numeric (if any)
1.10	Abstract (English)	compulsory	I, J	page number using Roman numeric
	Abstrak (Bahasa Melayu)			
1.11	Table of Contents	compulsory	K	page number using Roman numeric
1.12	List of Tables	compulsory	L	page number using Roman numeric
1.13	List of Figures	compulsory	M	page number using Roman numeric
1.14	List of Symbols/Abbreviations/Notation/Terminology	compulsory	N	page number using Roman numeric
1.15	List of Appendices	compulsory (if any)	O	page number using Roman numeric (if any)
1.16	Text	compulsory	-	page number using Arabic numeric starting with page 1
1.17	References	compulsory	-	page number using Arabic numeric continue from the text
1.18	Appendices	optional	-	page number using Arabic numeric continue from the text

## **1.4 Declaration**

### **1.4.1 Supervisor's Declaration**

A thesis to be submitted for the purpose of examination must obtain prior declaration by the supervisor on the standard and quality of the thesis. See example in Appendix C1.

### **1.4.2 Declaration on Cooperation with Outside Agencies and Certification of Examination**

#### **Section A**

Any cooperation with other outside agencies in carrying out the research project that lead to the submission of the thesis must be declared.

#### **Section B**

Students must obtain certification of examination from the School of Graduate Studies.

Please see example in Appendix C2.

## **1.5 Title Page**

Title page must contain information listed in the following order:

- Title of the thesis;
- Student's full name as in identity card or passport for international student;
- Statement of award for the thesis (see Appendix E);
- Name of Faculty Institute/Centre where the student registered;
- Name of the University; and
- Month and Year of submission (Month and Year of submission of hard bound copy of the thesis).

See example in Appendix D.

### 1.5.1 Thesis Title

- i. Thesis title should be a concise description of the main focus and contribution of the research. It should not contain more than 15 words excluding grammatical words such as articles, conjunction and prepositions.
- ii. To avoid redundancy, titles should not contain phrases which reflect research exercise such as “An investigation of ...”, “A preliminary study of ...”, “A study of ...”, “Analysis of ...”, “On the ...”, “Theory of ...”, “Some ,,”, and “Toward a ...”.
- iii. Thesis title should not contain formulas, symbols or subscripts, Greek letters, or other non-alphabetical symbols. Word substitutes should be used instead.
- iv. Thesis title should not contain acronyms or even acronyms in brackets unless the term is commonly used in the field of the study (eg: DNA, GPS). For example, “GIS” should be written as “Geographical Information System” and should not be written as “Geographical Information System (GIS)”.
- V. Thesis title should not contain punctuations such as colon “:”, semi-colon “;”, etc. except commas “,” when necessary.

## 1.6 Statement of Award for the Thesis

This statement should be written on the Title Page. It should state the purpose and the award for which the thesis is submitted. Examples of statements for various purposes and awards are listed in Appendix E.

### 1. Bachelor Degree Project Report

A report submitted in partial fulfilment of  
the requirements for the award of the  
degree of Bachelor of  
.....

### 2. Master's Project Report (By course work)

A project report submitted in partial fulfilment of  
the requirements for the award of the degree of  
Master of ..... (*specialisation*)

### 3. Master's Dissertation (By course work and research)

A dissertation submitted in partial fulfilment of  
the requirements for the award of the degree of  
Master of ..... (*specialisation*)

### 4. Master's Thesis (By research)

A thesis submitted in fulfilment of the  
requirements for the award of the degree of  
Master of ..... (*specialisation*)

### 5. Doctor of Philosophy Thesis

A thesis submitted in fulfilment of the  
requirements for the award of the degree of  
Doctor of Philosophy (*specialisation*)

### 6. Engineering Doctorate Thesis

A dissertation submitted in partial fulfilment of  
the requirements for the award of the degree of  
Doctor of Engineering (*specialization*)

## **1.7 Declaration Page**

This page should contain declaration by the student on originality of the thesis. The declaration should be signed. See example in Appendix F.

## **1.8 Dedication Page (optional)**

The dedication must be brief, not more than one paragraph, and must not contain any number, chart or photograph. See example in Appendix G.

## **1.9 Acknowledgement (optional)**

The student may acknowledge the assistance of various individuals or organisations in successfully producing the thesis. This should be written in one page. Example can be seen in Appendix H.

## **1.10 Abstract**

An abstract is a short summary of the thesis. The abstract should include the followings;

- i) The abstract has to start with a brief theme sentence to orientate the reader about the overall issue addressed in the thesis.
- ii) The abstract should indicate the aim or purpose of the research
- iii) The academic and/or practical importance of the study should be explained
- iv) The methodology used in the study should also be briefly described
- v) The main findings of the study should be summarized
- vi) A statement of conclusion should indicate the contribution made by the study on filling gaps in the literature
- vii) The practical or managerial implications of the study's findings should be highlighted where appropriate.

Abstract must be bilingual. For a thesis written in Bahasa Melayu, the abstract must first be written in Bahasa Melayu and followed by the English translation. If the thesis is written in English, the abstract must be written in English and followed by the translation in Bahasa Melayu. The abstract should be brief, written in one paragraph and not exceed one (1) page. An abstract is different from synopsis or summary of a thesis. It should states the field of study, problem definition, methodology adopted, research process, results obtained and conclusion of the research. The abstract can be written using single or one and a half spacing. Example can be seen in Appendix I (Bahasa Melayu) and Appendix J (English).

#### AN EXAMPLE OF AN ABSTRACT

Abstract: (i) Most research on business relationships and networks concentrates on social bonds, such as trust and commitment. Little research considers technical bonds and how they interact with social bonds within a relationship. (ii and iii) Thus, this research investigates how technical bonds of information technology link with social bonds in the relationship between two organizations in a business system, in particular, between a franchisor and franchisees within a franchise system. (iv) First, a conceptual framework of the structure of a relationship between business alliance partners was synthesized from the business-to-business marketing literature. Then Australian franchisors were surveyed about the effects of their investments in information technology upon their franchisor-franchisee relationship. Structural Equation Modeling techniques were used to analyzed data. (v) The results provided support for the conceptual framework, with the franchisor's increased technical competence from information technology improving the social bonds in a relationship but those bonds being secondary to further technical investment. (vi) An implication for managers is that investments in information technology operate through the social bonds within their business.

(Adapted from Perry, Cavaye and Coote (2002:75); 178 words)



## **1.16 Text**

A thesis must be divided into chapters. A title must be given and it should reflect its content. A new chapter must begin on a new page. A chapter must be divided into sections. These sections must be given appropriate titles and numbered.

Texts must be written in paragraphs. Long paragraphs should be avoided. Each paragraph must describe an issue or subject. There must be continuity between paragraphs.

The text should contain:

- (i) an introduction and background on the study or research;
- (ii) a detailed description of the study or research which include theories, models, and materials and methods used;
- (iii) the data collection and analysis techniques.
- (iv) the main results and discussions; and
- (iv) the conclusions and significance of the findings.

### **1.16.1 Citation in the Text**

Citation is a means of formally recognizing within the text, the resources from which the information or idea were obtained. The purpose is to acknowledge the work of others, to demonstrate the body of knowledge in which the work is based on and to lead others for further information. Citation in the texts must be written according to any one of the styles described in Chapter 3.

### **1.16.2 Quotations in the Text**

A quotation must be written in a separate paragraph. If the quotation is in a different language, it must be written in *italic*. Example of writing a quotation is shown in Appendix P.

### **1.16.3 Tables in the Text**

All tables must be numbered using Arabic numeric. A caption should be positioned at the top of the table. If the caption is written in a single line, it

should be centred. If the caption is written more than one line, it should be align to the left. Tables must be numbered with respect to the chapter. For example, Table 4.3 is the third table that appears in chapter 4. See example in Appendix Q

A table should be positioned after it is being cited for the first time in the text. All tables in the chapter can also be grouped together and positioned at an appropriate location. All tables must be listed in the List of Tables page.

#### **1.16.4 Figures in the Text**

Illustrations such as maps, charts, graphs, drawings, diagrams, and photographs are referred as *figures*. All figures must be clear and of high quality. Figures must be numbered using Arabic numeric. A caption should be located at the bottom of the figure. If the caption is written in a single line, it should be centred. If the caption is written in more than one line, it should be align to the left. Figures are numbered with respect to the chapter. For example, Figure 4.3 is the third figure that appears in Chapter 4.

A figure should be positioned after it has being cited for the first time in the text. All figures in the chapter can also be grouped together and positioned at an appropriate location. All figures must be listed in the List of Figures page.

Illustrations in the form of CD's, slides, and others should be placed in specially made pockets glued to the inner side of the back cover. oversized illustrations in the form of plans, maps, charts, graphs, and others should be reduced to fit a single page unless the oversized materials are absolutely necessary for clarity and understanding. For illustrations other than above, please refer to the following guidelines;

**(i) Photographs**

Photographs should be digitally embedded in the text unless absolutely impossible.

**(ii) Newspaper Cuttings or Similar Materials**

Copies of newspaper cuttings or similar materials should be of high quality.

**(iii) Maps and Aerial Photographs**

Maps and aerial photographs to be included in the thesis should have a written approval by *Ketua Pengarah Pemetaan Negara*. Application can be made using PPN 14 form available at the Sultanah Zanariah Library. See example in Appendix S.

It is advisable to scan all illustration materials using a scanner and printing them using a high quality color printer.

**1.17 References**

References are detailed description of items from which information were obtained in preparing the thesis. All references must be listed at the end of the text. They should be arranged using one of the methods discussed in Chapter 3.

**1.18 Appendix**

Appendices are supplementary materials to the text. These include tables, charts, computer program listings, and others. The following should be noted:

- (a) Appendix is not a must in a thesis. If necessary, data used for analysis, example of questionnaires, maps, photographs and other materials which are lengthy to be included in the text or materials that are not required implicitly to clarify matters discussed can be accompanied as appendix.
- (b) Appendix can be named as Appendix A, Appendix B, and so on, depends on types and quantity to be included. Specific titles can also be given.

## **CHAPTER 2**

### **SIZE AND FORMAT**

#### **2.1 Paper and Size**

White simile 80 gram high quality A4 size papers (210 x 297 mm) should be used.

#### **2.2 Margin**

All pages should be set with the same margin. The left margin should be 4 cm (for binding purposes) and 2.5 cm for the top, right and bottom margins.

#### **2.3 Pagination**

Each page of a thesis must be counted and numbered. Pages should be numbered consecutively as shown in Table 1.1. The page numbers should be printed at the top right hand corner, 1.25 cm from the top edge and 2.5 cm from the right edge. Numbering should be as follows:

- (i) Preliminary pages of a thesis, starting from the title page should be numbered using small letter Roman numeric (i, ii, iii, etc.); the texts should be numbered using Arabic numeric (1, 2, 3, etc. ).
- (ii) The first page should be the title page. This page should be counted "i" but should not be printed.
- (iii) The first page of the text should be counted "1" but the number should not be printed. Similarly, the first page of all chapters should be counted but the numbers should not be printed.
- (iv) If a thesis is made up of a number of parts, separating pages can be inserted but these pages should not be counted and numbered.

## **2.4 Numbering the Chapters and Sub-sections**

All chapters and their sub-sections must be labelled and numbered. The chapters are numbered using Arabic numeric, i.e. Chapter 1, Chapter 2, Chapter 3, and so on. The sub-sections should not be indented but arranged in a structured manner not more than four levels as follows:

- 2 First level (Title of the chapter)
- 2.1 Second level (Title of the sub-section)
- 2.1.1 Third level (Title of the sub-sub-section)
- 2.1.1.1 Fourth level (Title of the sub-sub-sub-section)

If the length of a title of a chapter or any level is more than one line, same line spacing as in the text should be used. Sub-sections beyond level four should be labelled using characters. Examples are shown in Appendices T and U.

If a thesis is divided into parts, separation sheets should be used to separate them. The separation sheets should be printed with capital letters, i.e. PART 1, PART 2, PART 3, and so on.

## 2.5 Typing

A thesis should be typed using word or text processor. Font type and size that are commonly used for printed academic materials should be used. The same font type should be used throughout the thesis. The character size should **not be less** than 0.2 cm for capital letters and 0.15 cm for small letters. If *Microsoft Word* is used, font type *Times New Roman* with font size 12 or bigger should be used. One and a half line spacing should be used. The text must be printed on one side only.

The title of a chapter should be typed using capital letters and centred. A new chapter must start on a new page. Chapters and their sub-sections must be given titles. The titles should be typed using bold letters and should not be underlined. See examples in Appendices T and U.

## 2.6 Spacing and Format

The following guidelines should be observed:

- (i) The spacing between the top margin and the chapter number should be 2.5 cm;
- (ii) The spacing between the chapter number and the title, and between the title and the first line of a text should be four (4) line spacing;
- (iii) The spacing between the last line of a text with the title of a sub-section should be four (4) line spacing;
- (iv) The spacing between the title of a sub-section and the first line of a text should be two (2) line spacing;
- (v) The spacing between paragraphs should be two (2) line spacing;
- (vi) The number and the title of sub-section should be aligned with the left margin;
- (vii) The first line of a paragraph should be indented by 1.27 cm (0.5 inch) from the left margin;
- (viii) A new paragraph should not begin on the last line of a page;

- (ix) The spacing between the last line of a text and a table, or a figure or an illustration should be two (2) line spacing;
- (x) The spacing after a full stop should be two (2) character spacing.
- (xi) The spacing after a comma (,) should be one (1) character spacing.

See examples in Appendices T and U.

## **2.7 Computer Printed Copy**

A thesis should be typed using word or text processors for fast and easy editing. Hardcopy should be produced using a laser printer or similar quality machines.

## **2.8 Lettering and Drawing**

Lettering and drawing must be clear and should be reproducible satisfactorily without loss of any information.

## **2.9 Maximum Limits**

The maximum number of pages for a project report/dissertation/thesis are as follows:

Bachelor Degree Project Report	:	100 pages
Master's Report/Dissertation/Thesis	:	200 pages
Doctorate Thesis	:	300 pages

These limits include tables, figures and other illustrations in the text but do not include Appendices.

## 2.10 Binding

A thesis must be bound properly. A thesis should be temporarily bound for the purpose of examination. A thesis for final submission must be permanently bound with hard cover.

### 2.10.1 Cover Colour and Writing

A thesis submitted to the University must be permanently bound. A **Buekram** type cover must be used and written with golden ink for the lettering. The minimum size of the letters should be 18 point. The cover colours and their codes should be as follows:

	<b>Thesis</b>	<b>Colour</b>	<b>Colour code</b>
(i)	DOCTORATE	Maroon	567
(ii)	MASTER'S	Dark brown	537
(iii)	BACHELOR DEGREE REPORT:		
a.	Faculty of Built Environment	Purple	551
b.	Faculty of Civil Eng.	Green	557
e.	Faculty of Geoinformation Science And Engineering	Light blue	548
d.	Faculty of Electrical Engineering	Yellow	520
e.	Faculty of Chemical and Natural Resource Engineering	Black	585
f.	Faculty of Mechanical Engineering	Red	530
g.	Faculty of Education	Sky blue	562
h.	Faculty of Management and Human Resource Development	New blue	550
i.	Faculty of Science	Light green	531
J.	Faculty of Computer Science and Information System	Red	532

Please use colour code when ordering binding at the vendor.

### **2.10.2 Front Cover**

The front cover should be written with the title of the thesis, the student's name and Universiti Teknologi Malaysia using capital letters. An example is shown in Appendix V.

### **2.10.3 Spine**

On the spine should be written the student's name, the degree in Bahasa Melayu, the year the thesis is approved (the year final bound thesis submitted) and UTM as in Appendix W.

## **CHAPTER 3**

### **REFERENCE STYLE**

#### **3.1 Introduction**

The details of the references cited in the text, published or unpublished should be located in the List of References. The list should be placed at the end of the thesis, a listing of sources actually cited, compiled either alphabetically (Harvard System), numerically (Number System) or American Psychological Association Style (APA Style). The style selected must be used consistently throughout the thesis.

#### **3.2 Author and Year System**

This system is also known as Harvard System.

##### **3.2.1 Citing in the Text**

The references cited in the text should be indicated using the name of the author and the date of publication. Examples are as follows:

- (a) If the name of an author is written as part of a sentence, the year published should be written in parentheses.

"Works by Yao (1993) have shown that in order to maintain the behavioural link between the offsprings and their parents, the use of crossover operator should be avoided."

- (b) If the name of an author is not written as part of a sentence, both the name and year published should be written in parentheses.

"ANN offers useful properties and capabilities such as non-linearity, input and output mapping, adaptability and fault tolerance among others (Haykin, 1999)."

- (c) If there are two authors for a cited reference, both names should be written.

"In designing the model for non-linear system, the parsimonious principle (Soderstrom and Stoica, 1989) is critical because a non-linear model involves an excessive number of parameters."

"Syu and Chang (1999) successfully used neural networks to adaptively control *Penicillin acylase* fermentation."

- (d) If there are more than three authors for a cited reference, use *et al.* after the name of the first author.

"The algorithm can be calculated by applying Gram-Schmidt procedures as described by Korenberg *et al.* (1988)."

- (e) If more than one reference materials by the same author in a same year are cited, use small letter alphabets (a, b, c, and so on) to distinguish them.

"Some of the basic principles widely used by many researchers are Lagrange-Euler (LE) equations (Vicker, 1965; Bejczy and Paul,1981), Newton-Euler (NE) equations (Luh *et al.*, 1980a) and d'Alcmbert (G-D) equations (Lee *et al.*, 1983)."

"Luh *et al.* (1980b) presented an example of an acceleration control of robot arm/manipulator."

- (f) Cross referencing in not allowed in a thesis. Only primary sources should be used.

### 3.2.2 List of References

All references cited should be listed in the List of References at the end of the last chapter. List the references alphabetically. If more than one published materials by the same author are cited, these materials should be listed chronologically. For example, an article by Scholfield published in 1964 should be listed before the one published in 1967.

### 3.2.3 Writing Style for Authors' Names in the List of References

Generally authors' names are listed using surname followed by their initials. The followings are examples of writing style according to the name of the author:

- (i) Single and multiple authors

Example (single author) :

Veres, S. M. (1990). *Structure Selection of Stochastic Dynamic Systems*.

New York: Gordon and Breach Science Publishers.

Example (two or more authors):

Soderstrom, T., and Stoica, P. (1989). *System Identification*. United Kingdom: Prentice Hall International Ltd.

Luh, J. Y. S., Walker, M. W., and Paul, R. P. (1980b). Resolved-Acceleration Control of Mechanical Manipulators. *IEEE Trans. Automatic Control*. 25(3): 468-474.

(ii) Editor

Example:

Martin, A. M. (Ed.) (1991). *Peat as an Agent in Biological Degradation of Waste*. London: Elsevier

Lees, R. H. and Thomas T. R. (Eds.) (1974). *Chemical Nomenclature Usage*. Chichester: Ellis Horwood.

(iii) Corporate author/editor

Example:

Engineers Joint Council (1969). *Thesaurus of Engineering and Scientific Terms*. New York: Engineers Joint Council.

### **3.2.4 Writing Style for Various Types of Publication Materials in the List of References**

Frequently, different types of publication materials are cited in a thesis. The style of writing details on cited publication in the List of References should be as follows:

(i) Book

Author (Year). *Title*. (Edition). Placed published: Publisher.

Example:

Theusen, G. J. and Fabrycky, W. J. (1984). *Engineering Economy*. (6<sup>th</sup> ed.) Englewood Cliffs, N. J.: Prentice Hall.

(ii) Article in a book

Author of the article (Year). *Title of the article*. In author or editor of the book. *Title of the book*. (page). Place published: Publisher.

Example:

Hussein, S. B., Jamaluddin, H., Mailah, M. and Zalzal, A. M. S. (2000). An Evolutionary Neural Network Controller for Intelligent Active Force Control. In Parmee, I. C. (Ed.) *Evolutionary Design and Manufacturing* (pp. 351 -362). London: Springer-Verlag.

(iii) Journal articles

Print format

Author (Year). Title of the article. *Title of the Journal*. Volume (Issue no.), page.

Example:

Billings, S. A. (1980). Identification of Nonlinear Systems: A survey. *Proc. IEE, Part D*. 127(6), 272-284.

Electronic format

Author (Year). Title of the article. *Title of the Journal*. Volume (Issue no.), page. Publisher

Example:

Borman, W. C. (1993). Role of Early Supervisory Experience in Supervisor Performance. *Journal of Applied Psychology*, 78, 443 - 449. American Psychology Association.

(iv) Conference articles

Author (Year). Title of the article. *Name of the conference*. Date of the conference. Place, page.

Example:

Sheta, A. F. and De Jong, K. (1996). Parameter Estimation of Nonlinear Systems in Noisy Environments Using Genetic Algorithms. *Proceedings of the 1996 IEEE International Symposium on Intelligent Control*. 15-18 September. Dearborn, Michigan: IEEE, 360 - 365.

(v) Thesis

Author (Year). *Title of the thesis*. Thesis award. Place published.

Example:

Adnan bin Hassan (2002). *On-line Recognition of Developing Control Chart Patterns*. PhD Thesis Page 31, Universiti Teknologi Malaysia, Skudai.

(vi) Legislations

Name of the country (year). *Title of the legislation*. Legislation number.

Example:

Malaysia (1983). *Perintah Monumen Lama dan Tapak Tanah Bersejarah*. P.V.(A)41 1983.

(vii) Standards

Name of the institution (Year). *Standard number*. Place published: Publisher

Example:

British Standards Institution (1990). *B.S. 764*. London: British Standards Institution.

(viii) Patent

Print format

Author (Year). *Patent number*. Place published: Official source.

Example:

Smith, I. M. (1988). *U.S. Patent No. 123, 445*. Washington DC: V.S. Patent and Trademark Office.

Electronic format

Author (Year). *Patent number*. Retrieved on date, year, from VRL address of the patent database.

Example:

Ulrich, K. (2001). *European Patent No. EP1162184*. Retrieved on March 7, 2002, from <http://ep.espacenet.com/>

(ix) Brochure

Name of organization (Year). *Title* [Brochure]. Place published: Publisher.

Example:

Research and Training Center (1993). *Guidelines for Reporting and Writing About People with Disabilities*. [Brochure]. Lawrence, KS: Macmillan

(x) Measured drawings

Author (Year). *Title*. [Measured drawing]. Name of organization: Place published.

Example:

Salim Man (1989). *Pengisi Sekam ke Dalam Kontena Penyimpan: Pandangan Isometrik*. [Lukisan Teknik]. Vniversiti Teknologi Malaysia: Skudai.

(xi) Unpublished materials

Author (Year). *Title*. Unpublished note, Name of organization.

(xii) Newspaper article

Print format

No author

Title of article. (Year, date). *Name of newspaper*, page.

Example:

Gearing up to meet new challenges. (2000, February 22). *The Star*. p. 2.

Author

Author. (Year, date). Title of article. *Name of newspaper*, page.

Example:

Izatun Shari (2000, April 18). K-economy: draft out in October. *New Straits Times*. p. 2-4.

Electronic format

Author. (Year, date). Title of article. *Name of newspaper*, Retrieved date, year, from VRL address of the newspaper.

Example:

Rosmawati Mion (2006, June 17). Sindiket judi haram tumpas. *Utusan Malaysia*. Retrieved June 19, 2006, from <http://www.utusan.com.my>

(xii) Magazine

Author. (Year). Title of article. *Name of magazine*, Volume/Issue no., page

Example:

Smith, B. L. (1994). Biofeedback. *Science*, 62, 673 – 675.

(xiii) CD-ROM

Author. (Year). Title of article. [CD-ROM]. *Title of Journal*, Volume, page.  
Publisher.

Example:

Ivry, R. B. (1995). Perception and production of temporal intervals across a range of durations. [CD-ROM]. *Journal of Experimental Psychology*, 21, 3-18. American Psychological Association.

Example of a List of References using author and year system is shown in Appendix X.

### 3.3 Number System

#### 3.3.1 Citing in the Text

All references cited in the text must be assigned numbers using Arabic numeric. The first cited reference should be assigned with number 1. Subsequent cited references should be given consecutive numbers. One of the methods below can be used when citing:

- (i) If the name of an author is written as part of a sentence, the reference number should be inserted in parenthesis or square brackets or superscript after the author's name, for example:

"Genetic algorithm was introduced by Holland (1) and was extensively explored by Goldberg (2)."

OR

"Genetic algorithm was introduced by Holland [1] and was extensively explored by Goldberg [2]."

OR

"Genetic algorithm was introduced by Holland<sup>1</sup> and was extensively explored by Goldberg<sup>2</sup>."

- (ii) If the name of an author is not part of a sentence, the reference number should be inserted in parenthesis or square brackets or superscript at the appropriate location; for example:

"Recently, evolutionary programming has been applied to various optimization problems (1) and it offers many advantages such as having global search characteristics."

OR

"Recently, evolutionary programming has been applied to various optimization problems [1] and it offers many advantages such as having global search characteristics."

OR

"Recently, evolutionary programming has been applied to various optimization problems<sup>1</sup> and it offers many advantages such as having global search characteristics."

### 3.3.2 Writing Style for Various Types of Publication Materials in the List of References

In the list of references, the numbers assigned to the source of references cited in the text are listed in incremental order. The style of writing details on cited publication in the List of References are as follows:

- (i) Book

Author. *Title of the book*. Edition (if not the first). Place published: Publisher.  
Year

Example:

Theusen, G. J. and Fabrycky, W. J. *Engineering Economy*. 6th. ed.

Englewood Cliffs, N. J.: Prentice-Hall. 1984

(ii) Article in a book

Author. Title of the article. In: Author of the book. *Title of the book*. Place published: Publisher. page; Year.

Example:

Hussein, S. B., Jamaluddin, H., Mailah, M. and Zalzal, A. M. S. An Evolutionary Neural Network Controller for Intelligent Active Force Control. In: Parmee, I. C. ed. *Evolutionary Design and Manufacturing*. London: Springer-Verlag. 351-362; 2000

(iii) Journal articles

Author. Title of the article. *Title of the Journal*. Year. Volume (number): page.

Example:

Billings, S. A. Identification of Nonlinear Systems: A Survey. *Proc. IEE Part D*, 1980. 127(6): 272-284.

(iv) Conference articles

Author. Title of the article. *Name of the conference*. Date of the conference. Place published: Publisher. Year. page.

Example:

Sheta, A. F. and De Jong, K. Parameter Estimation of Nonlinear Systems in Noisy Environments Using Genetic Algorithms. *Proceedings of the 1996 IEEE International Symposium on Intelligent Control*. September 15-18, 1996. Dearborn, Michigan: IEEE. 1996. 360-365.

(v) Thesis

Author. *Title of the thesis*. Thesis award. Name of Institution; Year

Example:

Adnan bin Hassan. *On-line Recognition of Developing Control Chart Patterns*. Ph.D. Thesis. Universiti Teknologi Malaysia; 2002

(vi) Standards

Name of the Institution. *Title of the standard*. Place published, Standard number. Year

Example:

British Standards Institution. *Tongued And Grooved Software Flooring*. London, BS 1297. 1987

(vii) Patent

Owner's name. *Title of the patent*. Patent number. Year.

Example:

Lindgren, E. A. *Screen Room Air Inlet and Wave Guard*. V.S. Patent 2, 925, 457. 1960.

(viii) Commercial catalogue

Name of distributor. *Title*. Place published: Note. Year

Example:

Howick Partitioning Ltd. *Howick: Partitioning in Business*. Redhill (V.K.): Trade brochure. 1984.

(ix) Measured drawings

Name. *Title*. Place published: Note. Year

Example:

Zairul Azidin Badri. *Rumah Kutai Haji Sahak, Kampung Tanjung, Kampung Gajah, Perak*. VTM: Lukisan Terukur. 1980.

Salim Man. *Pengisi Sekam ke Dalam Kontena Penyimpan: Pandangan Isometrik*. VTM: Lukisan Teknik. 1989.

Example of a List of References using Number System is in Appendix Y.

### **3.4 APA Reference**

### **3.5 Reference from Internet**

Although internet provides a large source of references, the information from internet are not permanent and are up-dated periodically. Thus these are unreliable sources of reference. Internet should only be used to retrieve primary sources of reference.

## CHAPTER 4

### NOTES AND FOOTNOTES

#### 4.1 General Guidelines

Notes are supplementary information provided in a writing. Notes such as footnotes, final notes, and others, are not allowed for theses in the field of Science and Technology. However, limited use of footnotes is allowed for theses in the field of Humanities and Social Sciences. Footnotes are used to elaborate or provide additional information regarding matters discussed in that page. Footnotes are recorded using Arabic numeric and numbered consecutively. Raised superscript numerals in the text refer to explanatory notes and documented sources appearing either at the bottom of the page as footnotes or at the end of the thesis as endnotes in a notes section. The advantage of using notes is that explanatory type of information can be presented along with source citations on the same page or place.

#### 4.2 Reference Style

Footnotes for references are written differently in the aspect of author's name and the use of punctuation. The author's name should be written in full. Comma or quotation mark should be used to separate author's name, title of the article and publication details. The font size used should be two (2) points smaller than the text.

Style for writing reference as footnotes:

numeral            Author, "Title of article." publication details, year, page.

Example:

10            Mary Duncan Carter, Wallace John Bonk, and Rose Mary Magrill,  
              "Building Library Collections." Fourth edition. (Metuchen, N. J.:  
              Scarecrow Press, 1974), pp.61 - 66.

## CHAPTER 5

### ELECTRONIC THESES AND DISSERTATIONS (ETD)

#### 5.1 Introduction

Senate meeting No.01/2002/03 dated 12 Jun 2002 has decided that all graduate students are to submit a copy of Thesis, Dissertation and Master's Project Report in digital form beside the normal bound hardcopy after approval. Students are required to submit three (3) bound hardcopies and three (3) CD containing digital thesis.

The main purpose of implementing digital thesis is to enable theses submitted to UTM be accessible through the Internet. This is in-line with development in digital technology and globalisation. With this implementation, UTM hopes to be projected as a leading university in research and graduate studies.

This guideline has been approved by Examination Board of Graduate Studies (Senate Sub-Committee) No. 14/2002/2003 on the 7<sup>th</sup> November 2002.

#### 5.2 Definition of Electronic Theses and Dissertations (ETD)

*Electronic Theses and Dissertations or ETD* are documents that record results of research or scholarship of graduate students. These documents are prepared in the form

that can be accessed globally through the Internet. An ETD is the same as the original paper document that has been approved by the panel of examiners and Senate.

### 5.3 Preparation Process

A thesis that has been examined and approved by Examination Board of Graduate Studies (Senate Sub-Committee) (JKTS(PS)) and Senate should be converted into digital form and submitted to the School of Graduate Studies (SPS). SPS will then forward both ETD and bound thesis to the Library for archive and access. Flow chart of the preparation process is shown in Figure 5.1.

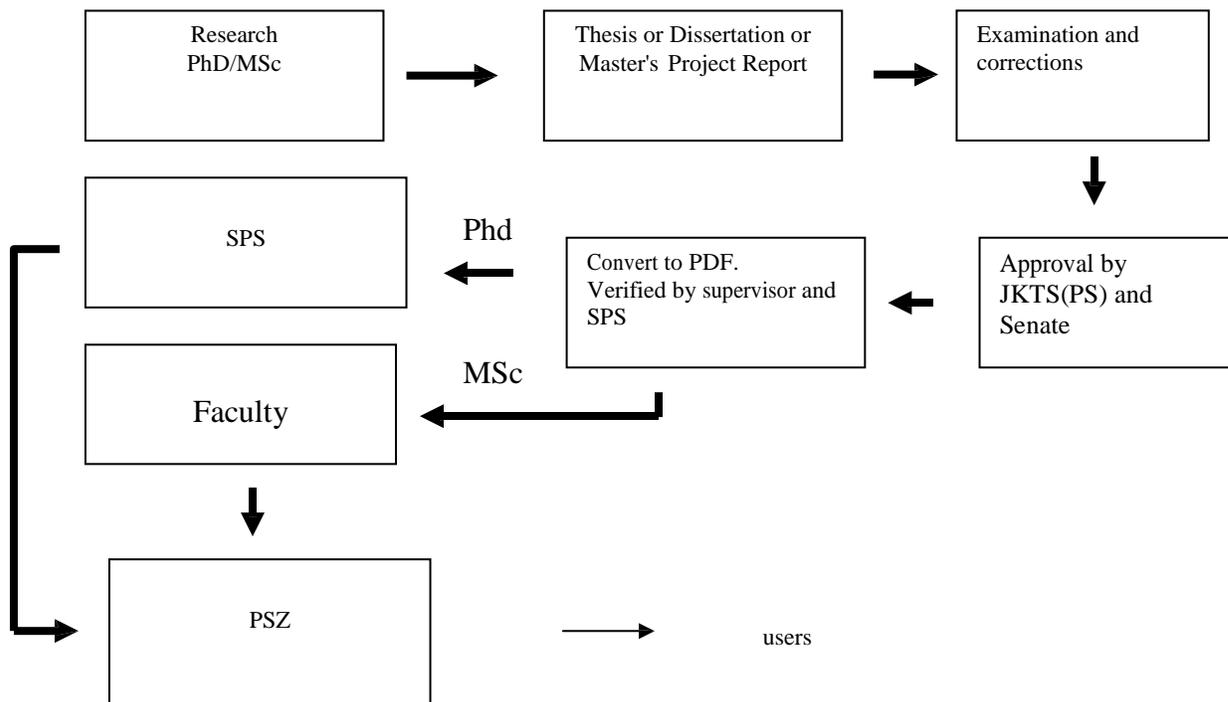


Figure 5.1: Preparation process of ETD

## 5.4 Contents of ETD

An ETD must consist of two (2) files, namely pre-access file and full text file.

### 5.4.1 Pre-access File

Pre-access file is a file that contains information about the author, the panel of examiners and a brief content of the thesis. By reading this file, a reader will be able to assess the relevance of the document to the reader's research interest. If a reader wishes to access the whole thesis, the reader should contact the librarian for the full text file. The pre-access file should include all the preliminary pages and the first ten pages of the introduction as arranged in the bound thesis.

### 5.4.2 Full Text File

A full text file consists of all contents of the thesis that has been approved by the Senate. This includes all preliminary pages, main contents of the thesis and all appendices as submitted to the panel of examiners and approved. Writing style as the original bound hardcopy must be retained as presented in Chapters 1 to 4. All these pages must be saved into one (1) file only.

## 5.5 Preparation Guideline

The following guidelines must be observed:

- i. The electronic version must be the same as the final bound thesis as approved by the Senate;
- ii. Convert the thesis into PDF format. Use the latest version of Adobe Acrobat PDFMaker. **Do not set Document Security;**

- iii. All pages which contain signatures of student and supervisor must be scanned;
- iv. If the status of a thesis is CONFIDENTIAL or RESTRICTED, electronic version is still required but must be properly indicated in the Thesis Status Declaration form;
- v. Two files must be generated. The first file is for the purpose of pre-access that will be made accessible to the public. The second file is the full text file. The files should be named as follows:

`<name><matrixno><p><tt><ss><c>.pdf`

Code description

`<name>` is the student's first name (without surname or father's name)

`<matrixno>` is the student's matrix card number

`<p>` is the university where the thesis was submitted

d - UTM

l - other than UTM

`<tt>` is the year approved

`<ss>` is the thesis status

su - confidential

th - restricted

tt - open access

`<c>` is the file type

p - pre-access file

t - full texts file

Example 1:

Wan Ahmad Nazri bin Wan Abdullah, is a master's student at FKM, UTM. His thesis is approved in the year 2002. His matrix card number is MM100123. The thesis is declared restricted.

Therefore:

<name> = wan ahmadnazri

<matrixno> = mm100123

<p> = d

<tt> = 02

<ss> = th

The files should be named as follows:

wanahmadnazrimm100123d02thp.pdf (pre-access file)

wanahmadnazrimm100123d02tht.pdf (full texts file)

Example 2:

Wong Ah Seng, is a UTM staff who studied for his Ph.D. overseas. The thesis is approved in the year 2002 and declared open access. He is a staff of Faculty of Education and his staff number is 1234

Therefore:

<name> = wongahseng

<matrixno> is derived given as defined in Table 5.1 yields

<matrixno> = pp31234

<p> = 1

<tt> = 02

<ss> = tt

**Table 5.1** Defining matrix card number for UTM's staff studying outside UTM

Course Category	Faculty code	Type pf Study	Staff Number
m - master p - doctorate 1- Advance Dip1oma	a - FKA b - FAB c - FSKSM d - PPD e - FKE f - UTM - KTU g - FKSG h- FPPSM i -BATC k - FKKS m - FKM n - UTM- ALM p - FP r - IBS s - FS z- UTM- (ATMA)	1 - course work 2 - course work and research 3 - research	

The files should be named as follows:

wongahsengpp31234102ttp.pdf (pre-access file)

wongahsengpp31234102ttt.pdf (full texts file)

Further detail on the method of naming files is discussed in section 5.6.

- vi. If the status of a thesis is CONFIDENTIAL or RESTRICTED, the pre-access file must contain only information that can be distributed. A full text file is still required but it is only for archive.
- vii. ETD must be submitted using high quality CD. Proper conversion according to this guidelines must be Verified by the student and witnessed by the Supervisor before submitted to SPS.

- viii. Two (2) CD with three (3) copies of bound thesis must be submitted to SPS together with ETD Verification form. Example of ETD Verification form is shown in Appendix Z.

## 5.6 Method of Naming ETD Files

Some examples on naming ETD files for theses submitted to UTM are as follows:

*Example]*

Student's name	Matrix card number						University (code)	Year (2 digit)	Status (Kod)	Access type (Kod)
	course category	Faculty code	Year register	Type of study	serial number					
Ahmad Bin Abdu11ah							UTM (d)	2002 (02)	Confidential (su) Restricted (th) Unrestricted (tt)	Pre-access (p) Full texts (t)
<b>ahmad</b>	<b>m</b>	<b>c</b>	<b>99</b>	<b>1</b>	<b>023</b>	<b>d</b>	<b>02</b>	<b>th</b>	<b>p</b>	

The files for thesis submitted to UTM should be named as follows

1. ahmadmc991023d02thp.pdf (Pre-access file)
2. ahmadmc991023d02tht.pdf (Full text file)

Example 2

Student's name	Matrix card number					University (Code)	Year (2 digit)	Status (Kod)	Access type (Kod)
	Course category	Faculty code	Year register	Type of study	serial number				
Meor Abdu1 Aziz bin Meor Ahmad						UTM (d)	2002 (02)	eonfidentia1 (su) Restricted (th) Unrestricted (tt)	Pre-access (p) Full texts (t)
<b>meorabdulaziz</b>	<b>P</b>	<b>m</b>	<b>98</b>	<b>3</b>	<b>023</b>	<b>d</b>	<b>02</b>	<b>tt</b>	<b>p</b>

The files for thesis submitted to UTM should be named as follows

1. meorabdulazizpm983023d02ttp.pdf (Pre-access file)
2. meorabdulazizpm983023d02ttt.pdf (Full text file)

Example of naming ETD files for thesis by a UTM staff submitted to other university should be as follows:.

Student's name	Matrix card number				University (Code)	Year (2 digit)	Status (Kod)	Access type (Kod)
	Course category	Faculty code	Type of study	staff number				
Norfaezah Binti Ishak (Norfaezah)					Other university (l)	2001 (01)	eonfidentia1 (su) Restricted (th) Unrestricted (tt)	Pre-access (p) Full texts (t)
<b>norfaezah</b>	<b>P</b>	<b>e</b>	<b>3</b>	<b>7171</b>	<b>l</b>	<b>01</b>	<b>su</b>	<b>p</b>

All UTM staffs studying in other uniVersities are still required to submit ETD to the library and the file names for the aboVe example should be follows:

1. norfaezahpe37171101sup.pdf (Pre-access file)
2. norfaezahpe37171101sup.pdf (Full text file)

### **Code Description**

#### **Course category**

- M - Master
- P - PhD
- L - Advance Diploma

#### **Faculty**

- A - Faculty of Civil Eng.
- B - Faculty of Built Environment
- e - Faculty of Computer Science and Information System
- D - Program Pengajian Diploma
- E - Faculty of Electrical Engineering
- F - UTM - Kolej Tentera Udara Diraja Malaysia
- G - Faculty of Geoinformation Science And Engineering
- H - Faculty of Management and Human Resource Development
- I - BATC
- K - Faculty of Chemical and Natural Resource Engineering
- L - UTM-Tentera Laut Diraja Malaysia
- M - Faculty of Mechanical Engineering
- N - UTM- Akademik Laut Malaysia
- P - Faculty of Education
- R - IBS
- S - Faculty of Science
- Z - UTM- Akademi Tentera Malaysia (ATMA)

#### **Type of Study**

- 1 - course work
- 2 - course work and research
- 3 - research

**APPENDIX A**  
**Example of thesis status validation form**

**UNIVERSITI TEKNOLOGI MALAYSIA**

**DECLARATION OF THESIS / UNDERGRADUATE PROJECT PAPER AND COPYRIGHT**

Author's full name :

Date of birth :

Title :

Academic Session:

I declare that this thesis is classified as :

- CONFIDENTIAL** (Contains confidential information under the Official Secret Act 1972)\*
- RESTRICTED** (Contains restricted information as specified by the organization where research was done)\*
- OPEN ACCESS** I agree that my thesis to be published as online open access (full text)

I acknowledged that Universiti Teknologi Malaysia reserves the right as follows:

1. The thesis is the property of Universiti Teknologi Malaysia.
2. The Library of Universiti Teknologi Malaysia has the right to make copies for the purpose of research only.
3. The Library has the right to make copies of the thesis for academic exchange.

Certified by :

**SIGNATURE**

**SIGNATURE OF SUPERVISOR**

**(NEW IC NO. /PASSPORT NO.)**

**NAME OF SUPERVISOR**

Date :

Date :

**NOTES :** \* If the thesis is CONFIDENTIAL or RESTRICTED, please attach with the letter from the organization with period and reasons for confidentiality or restriction.

## APPENDIX B

### Example of a thesis status declaration letter

*Date*

Librarian  
Perpustakaan Sultanah Zanariah  
UTM, Skudai  
Johor

Sir,

CLASSIFICATION OF THESIS AS RESTRICTED  
- *TITLE AND NAME OF AUTHOR'S*

Please be informed that the above mentioned thesis entitled "*TITLE*" be classified as RESTRICTED for a period of three (3) years from the date of this letter. The reasons for this classification are

- (i)
- (ii)
- (iii)

Thank you.

Sincerely yours,

*NAME, ADDRESS, TELEPHONE NUMBER OF SUPERVISOR*

---

Note: This letter should be written by the supervisor, addressed to PSZ and a copy attached to the thesis.

**APPENDIX CI**

**Sample of Supervisor's Declaration**

"I/We\* hereby declare that I/we\* have read this thesis and in my/our\* opinion this thesis is sufficient in terms of scope and quality for the award of the degree of Master of ..... (*specialisation*)  
or Doctor of Philosophy (*specialisation*)  
or Doctor of Engineering (*specialisation*) "

Signature : .....  
Name of Supervisor I : .....  
Date : .....

Signature : .....  
Name of Supervisor II : .....  
Date : .....

Signature : .....  
Name of Supervisor III : .....  
Date : .....

\* *Deletc as necessary*

## APPENDIX C2

### Contoh pengesahan Sekolah Pengajian Siswazah/Fakulti/Agensi Kerjasama

#### BAHAGIAN A - Pengesahan Kerjasama\*

Adalah disahkan bahawa projek penyelidikan tesis ini telah dilaksanakan melalui kerjasama antara \_\_\_\_\_ dengan \_\_\_\_\_

Disahkan oleh:

Tandatangan : ..... Tarikh : .....

Nama : .....

Jawatan : .....  
(Cop rasmi)

*\* Jika penyediaan tesis/projek melibatkan kerjasama.*

---

---

#### BAHAGIAN B - Untuk Kegunaan Pejabat Sekolah Pengajian Siswazah

Tesis ini telah diperiksa dan diakui oleh:

Nama dan Alamat Pemeriksa Luar : .....

.....

.....

.....

Nama dan Alamat Pemeriksa Dalam : .....

.....

.....

.....

Nama Penyelia Lain (jika ada) : .....

.....

.....

.....

Disahkan oleh Timbalan Pendaftar di SPS:

Tandatangan : ..... Tarikh : .....

Nama : .....

**APPENDIX D**  
**Example of a title page**

ON-LINE RECOGNITION OF DEVELOPING CONTROL CHART PATTERNS

ADNAN BIN HASSAN

A thesis submitted in fulfilment of the  
requirements for the award of the degree of  
Doctor of Philosophy (Mechanical Engineering)

Faculty of Mechanical Engineering  
Universiti Teknologi Malaysia

JUNE 2015

2.5 cm

2.5 cm

x

x

4 cm

2.5 cm

y

y

2.5 cm

## APPENDIX E

### Sample of statement of awards for theses

**1. Bachelor Degree Project Report**

A report submitted in partial fulfilment of the requirements for the award of the degree of Bachelor of .....

**2. Master's Project Report (By course work)**

A project report submitted in partial fulfilment of the requirements for the award of the degree of Master of ..... (*specialisation*)

**3. Master's Dissertation (By course work and research)**

A dissertation submitted in partial fulfilment of the requirements for the award of the degree of Master of ..... (*specialisation*)

**4. Master's Thesis (By research)**

A thesis submitted in fulfilment of the requirements for the award of the degree of Master of ..... (*specialisation*) .

**5. Doctor of Philosophy Thesis**

A thesis submitted in fulfilment of the requirements for the award of the degree of Doctor of Philosophy (*specialisation*)

**6. Engineering Doctorate Thesis**

A dissertation submitted in partial fulfilment of the requirements for the award of the degree of Doctor of Engineering (*specialisation*)

**APPENDIX F**

**Sample of a declaration page**

I declare that this thesis entitled " *title of the thesis* " is the result of my own research except as cited in the references. The thesis has not been accepted for any degree and is not concurrently submitted in candidature of any other degree.

Signature : .....

Name : .....

Date : .....

**APPENDIX G**

**Sample of a dedication page**

To my beloved mother and father

**APPENDIX H**

**Example of Acknowledgment page**

2.5 cm

2.5 cm

**ACKNOWLEDGEMENT**

4 lines

1.27 cm (0.5 inci)

In preparing this thesis, I was in contact with many people, researchers, academicians, and practitioners. They have contributed towards my understanding and thoughts. In particular, I wish to express my sincere appreciation to my main thesis supervisor, Professor Dr. Mohd Shariff Nabi Baksh, for encouragement, guidance, critics and friendship. I am also very thankful to my co-supervisors Professor Dr. Awaluddin Mohd Shaharoun and Associate Professor Dr. Hishamuddin Jamaluddin for their guidance, advices and motivation. Without their continued support and interest, this thesis would not have been the same as presented here.

4 cm

I am also indebted to Universiti Teknologi Malaysia (UTM) for funding my Ph.D. study. Librarians at UTM, Cardiff University of Wales and the National University of Singapore also deserve special thanks for their assistance in supplying the relevant literatures.

2.5 cm

My fellow postgraduate students should also be recognised for their support. My sincere appreciation also extends to all my colleagues and others who have provided assistance at various occasions. Their views and tips are useful indeed. Unfortunately, it is not possible to list all of them in this limited space. I am grateful to all my family members.

2.5 cm

APPENDIX I

Example of an abstract in Bahasa Melayu

ABSTRAK

Kajian ini dilakukan bertujuan mengkaji penggunaan algoritma genetik (GA) dalam pemodelan sistem dinamik linear dan tak linear dan membangunkan kaedah alternatif bagi pemilihan struktur model menggunakan GA. Algoritma kuasa dua terkecil ortogon (OLS), satu kaedah penurunan kecerunan digunakan sebagai bandingan bagi kaedah yang dicadangkan. Pemilihan struktur model menggunakan kaedah algoritma genetik yang diubahsuai (MGA) dicadangkan dalam kajian ini bagi mengurangkan masalah konvergensi pramatang dalam algoritma genetik mudah (SGA). Kesan penggunaan gabungan operator MGA yang berbeza ke atas prestasi model yang terbentuk dikaji dan keberkesanan serta kekurangan MGA diutarakan. Kajian simulasi dilakukan untuk membandingkan SGA, MGA dan OLS. Dengan menggunakan bilangan parameter dinamik yang setara kajian ini mendapati, dalam kebanyakan kes, prestasi MGA adalah lebih baik daripada SGA dalam mencari penyelesaian yang berpotensi dan lebih berkebolehan daripada OLS dalam menentukan bilangan sebutan yang dipilih dan ketepatan ramalan. Di samping itu, penggunaan carian tempatan dalam MGA untuk menambah baik algoritma tersebut dicadangkan dan dikaji, dinamai sebagai algoritma memetik (MA). Hasil simulasi menunjukkan, dalam kebanyakan kes, MA berkeupayaan menghasilkan model yang bersesuaian dan parsimoni dan memenuhi ujian pengesahan model di samping memperoleh beberapa kelebihan dibandingkan dengan kaedah OLS, SGA dan MGA. Tambahan pula, kajian kes untuk sistem berbilang pemboleh ubah menggunakan data eksperimen sebenar daripada dua sistem iaitu sistem pengulang-alik turbo dan reaktor teraduk berterusan menunjukkan algoritma ini boleh digunakan sebagai alternatif untuk memperoleh model termudah yang memadai bagi sistem tersebut.

**APPENDIX J**

**Example of an abstract in English**

**ABSTRACT**

The purpose of this study is to investigate the application of genetic algorithm (GA) in modelling linear and non-linear dynamic systems and develop an alternative model structure selection algorithm based on GA. Orthogonal least square (OLS), a gradient descent method was used as the benchmark for the proposed algorithm. A model structure selection based on modified genetic algorithm (MGA) has been proposed in this study to reduce problems of premature convergence in simple GA (SGA). The effect of different combinations of MGA operators on the performance of the developed model was studied and the effectiveness and shortcomings of MGA were highlighted. Results were compared between SGA, MGA and benchmark OLS method. It was discovered that with similar number of dynamic terms, in most cases, MGA performs better than SGA in terms of exploring potential solution and outperformed the OLS algorithm in terms of selected number of terms and predictive accuracy. In addition, the use of local search with MGA for fine-tuning the algorithm was also proposed and investigated, named as mcmetic algorithm (MA). Simulation results demonstrated that in most cases, MA is able to produce an adequate and parsimonious model that can satisfy the model validation tests with significant advantages over OLS, SGA and MGA methods. Furthermore, the case studies on identification of multivariable systems based on real experimental data from two systems namely a turbo alternator and a continuous stirred tank reactor showed that the proposed algorithm could be used as an alternative to adequately identify adequate and parsimonious models for those systems.

2.5 cm

2.5 cm

4 line spacing

1.27 cm (0.5 in)

4 cm

2.5 cm

2.5 cm

**APPENDIX K**

**Sample of a Table of Contents page**

2.5 cm

2.5 cm

**TABLE OF CONTENTS**

4 baris

<b>CHAPTER</b>	<b>TITLE</b>	<b>PAGE</b>
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	<b>DEDICATION</b>	iii
	<b>ACKNOWLEDGEMENT</b>	iv
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4 cm

2.5 cm

2.5 cm

**APPENDIX L**  
**Example of a List of Tables**

**LIST OF TABLES**

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**APPENDIX M**  
**Example of a List of Figures**

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1.2	Design and development phases of the proposed scheme	7
1.3	Summary of the research contributions	10
1.4	Organisation of the thesis	11
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## APPENDIX N

### Example of a List of Symbols

#### LIST OF SYMBOLS

$D, d$	-	diameter
$F$	-	Force
$g$	-	Gravity = 9.81 m/s
$I$	-	Moment of inersia
$l$	-	Length
$m$	-	Mass
$N$	-	Rotational velocity
$p$	-	Pressure
$Q$	-	Volumetric flow-rate
$r$	-	Radius
$T$	-	Torque
$Re$	-	Reynold number
$v$	-	Velocity
$w$	-	Angular velocity
$x$	-	Displacement
$z$	-	Height
$e$	-	Angle
$\rho$		Density

**APPENDIX O**  
**Example of a List of Appendices**

**LIST OF APPENDICES**

<b>APPENDIX</b>	<b>TITLE</b>	<b>PAGE</b>
A	Examples of possible assignable causes of unnatural control chart patterns	253
B	Models for generating the control chart patterns (data streams)	254
C1	Mathematical expressions for the statistical features	256
C2	Minimum and maximum feature values	259
C3	Analysis of results for experiments to revise the parameter setting	260

2.5 cm

2.5 cm

4 line spacing

1.5 cm

4 cm

2.5 cm

2.5 cm

**APPENDIX P**

**Sample of a quotation in a text**

After deliberating on doctoral education in Australia in the 1990s, one observer in Australia writes:

The lack of any significant formal course work within our Ph.D. and master degrees by research has continued for three decades. The focus of our Ph.D. research type degrees continues to be the research project, and this is almost the only medium by which education is accomplished.

(Stranks, 1984:171)

2.5 cm

4 cm

2.5 cm

**APPENDIX Q**

**Sample of a table in the text**

**Table 4.3** : Comparison of experimental and computer simulation results

<b>Distance Ratio</b>	<b>Experiment (mean value)</b>	<b>Computer Simulation (mean value)</b>
0.125	0.25	0.137
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

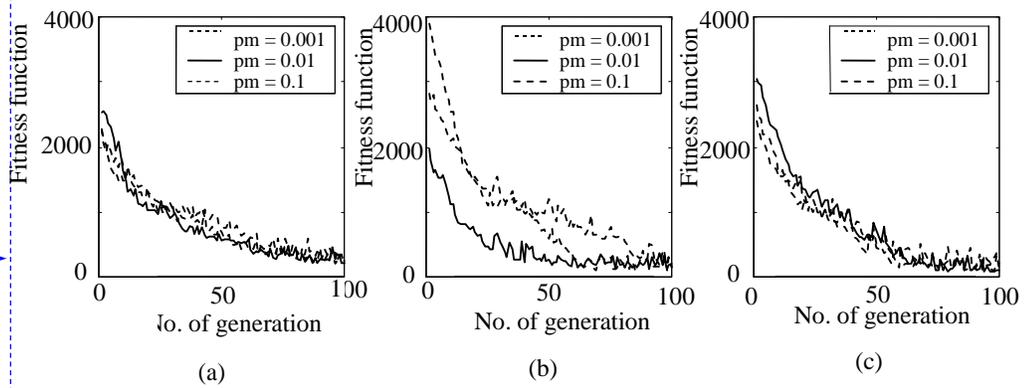
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2.5 cm

APPENDIX R

Sample of an illustration or a figure



**Figure 4.3** Simulation results for model 1 on effect of varied crossover and mutation a)  $p_c = 0.05$ , varied  $p_m$ , b)  $p_c = 0.6$ , varied  $p_m$  c)  $p_c = 0.95$ , varied  $p_m$

**APPENDIX S**

**Application form for permission to print aerial photograph/Malaysian series  
map**

Borang PPN 114

PENGARAH PCMETAAN NEGARA MALAYSIA  
Jalan Gurney, 50578 Kuala Lumpur  
SCMENANJUNG MALAYSIA

**PERMOHONAN KEBENARAN MENCETAK  
\*GAMBAR FOTO UDARA/PETA-PETA MALAYSIA  
APPLICATION FOR PERMISSION TO REPRODUCE  
\*AIR PHOTO/MAPS OF MALAYSIA**

(Diisi dalam dua salinan)  
*To be completed in duplicate*

1. Pcmohon: (nama & alamat) <i>Applicant: (name &amp; address)</i>  _____ _____ _____  No. Kad Pengenalan: <i>Identity Card No.:</i>  _____	Rujukan Pcmohon: <i>Applicant's reference:</i>  _____  Tarikh: <i>Date:</i>  _____
2. Tajuk Penerbitan & Pengarang: <i>Title of Publication &amp; Author:</i>  _____ _____ _____ _____	
3. Tujuan Penerbitan: <i>Purpose of Publication:</i>  _____ _____ _____ _____ _____ _____ _____	
4. Banyak naskah yang akan dicetak: <i>Number of copies to be print:</i>  _____ _____ _____ _____	Harga senaskah (jika dijual): <i>Price per copy (if for sale):</i>  _____ _____ _____ _____
5. Foto Udara/Peta-peta & Ukuran: (sila sertakan salinan foto sebenar yang akan dicetak) <i>Air photo/maps &amp; size: (please enclose photo of actual map to be printed)</i>  _____ _____ _____ _____ _____ _____ _____	

2.5 cm

## APPENDIX T

### Sample of numbering a chapter and sub-heading in the chapter

2.5 cm

## CHAPTER 2

4 line spacing

X

### TITLE OF THE CHAPTER

X

4 line spacing

1.27 cm (0.5 inch)

Text should begin at this position and continue to the end of the left margin.

4 cm

Text must be typed using 1.5 spacing.

2.5 cm

4 line spacing

### 2.1 Sub-Heading

2 line spacing

Text should begin at this position and continue to the end of the left margin.

Text must be typed using 1.5 spacing spacing.

4 line spacing

### 2.1.1 Sub-sub-heading

2 line spacing

Text should begin at this position and continue to the end of the left margin.

Text must be typed using 1.5 spacing spacing.

2.5 cm

**APPENDIX U**

**Sample of a page continuation**

2.5 cm  
Texts from previous page continue here.

4 line spacing

**2.5 Sub Heading**

2 line spacing

Text should begin here.

and ends here.

4 line spacing

**2.5.1 Sub-sub-Heading**

2 line spacing

**2.5.1.1 Sub-sub-sub Heading**

2 line spacing

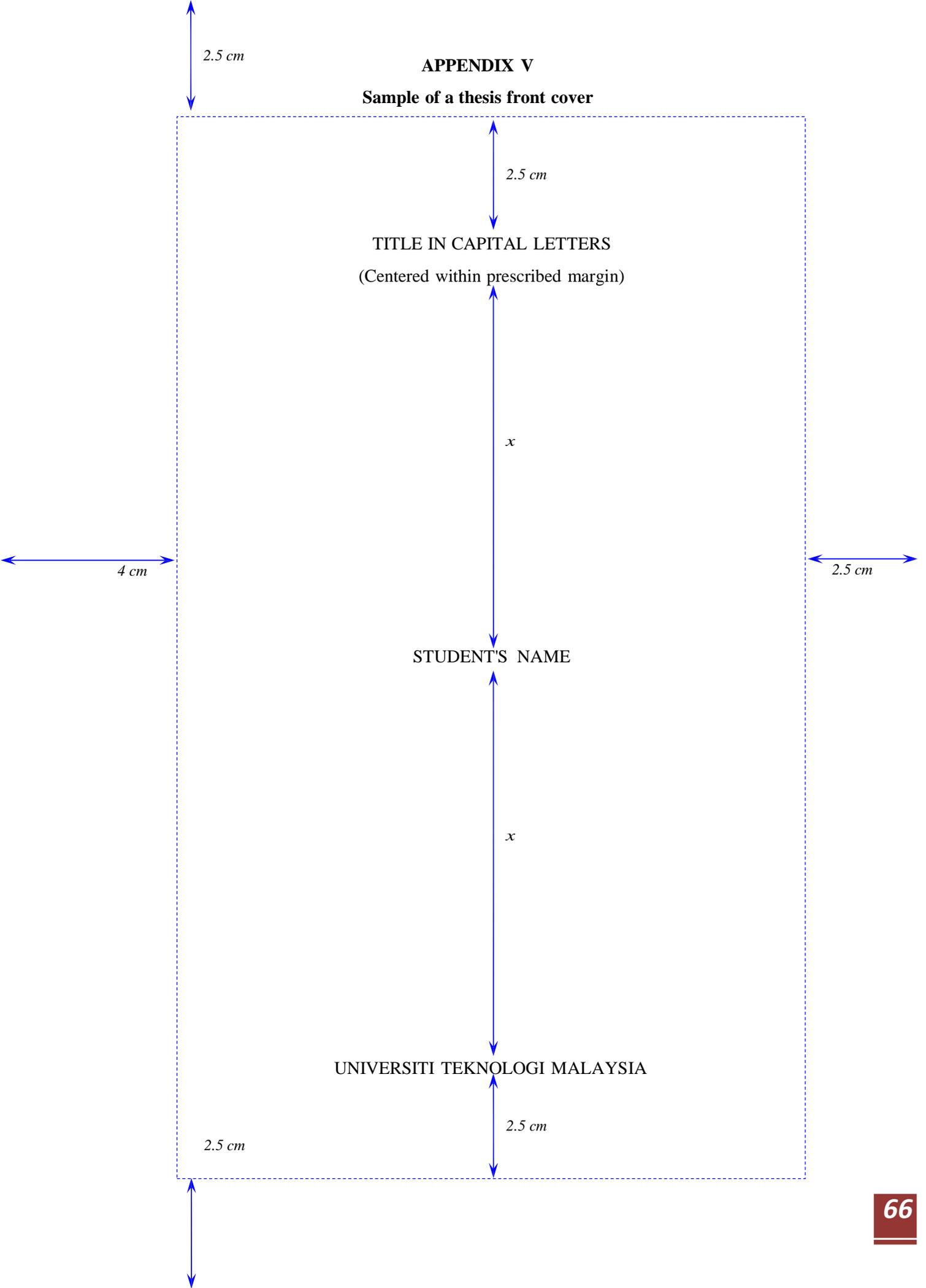
Text should begin here .....

and ends here.

2.5 cm

**APPENDIX V**

**Sample of a thesis front cover**



APPENDIX W

Sample of a thesis spine (must be in Bahasa Melayu)



## APPENDIX X

### Sample of a reference list using author and year system

- Ahmad Zaki Abu Bakar (1989). *Pcmprosesan Teks Bahasa Melayu Untuk Pcmahaman Komputer*. Universiti Teknologi Malaysia: Tesis Doktor Falsafah.
- American Chemical Society ed. (1978). *Handbook for Authors of American Chemical Society Publications*. Washington, D. C.: American Chemical Society.
- Billings, S. A. (1980). Identification of Nonlinear Systems: A survey. *Proc. Instn Electr. Engrs, Part D*. 127(6): 272-284.
- Engineers Joint Council (1969). *Thesaurus of Engineering and Scientific Terms*. New York: Engineers Joint Council.
- Martin, A. M. ed. (1991). *Peat as an Agent in Biological Degradation of Waste*. London: Elsevier. 314-362.
- Puget, J. F. and Albert, P. (1994a). *SOLVER: Constraints - Objects Descriptions*. Technical Report. ILOG S. A.
- Puget, J. F. and Albert, P. (1994b). *A C++ Implcmntation of CLP*. Technical Report. ILOG S. A.
- Sheta, A. F. and De Jong, K.(1996). Parameter Estimation of Nonlinear Systems in Noisy Environments Using Genetic Algorithms. *Proceedings of the 1966 IEEE International Symposium on Intelligent Control*. Septcmber 15-18. Dearborn, Michigan: IEEE, 360-365.
- Sukiman Sarmani (1987). *Pencemaran Radioaktif*. Dlm. Ahmad Badri Mohamad. *Perspektif Persekitaran*. Petaling Jaya: Fajar Bakti. 71-87.
- Theusen, G. J. and Fabrycky, W. J. (1984). *Engineering Economy*. 6th edition. Englewood Cliffs, N. J.: Prentice-Hall.
- Veres, S. M. (1990). *Structure Selection of Stochastic Dynamic Systems*. New York: Gordon and Breach Science Publishers.

---

Note: Arranged alphabetically according to author's name.

## APPENDIX Y

### Sample of a reference list using number system

1. Theusen, G. J. and Fabrycky, W. J. *Engineering Economy*. 6th edition. Englewood Cliffs, N. J.: Prentice-Hall. 1984.
2. Sukiman Sarmani. Pencemaran Radioaktif. Dlm.: Ahmad Badri Mohamad. *Perspektif Persekitaran*. Petaling Jaya: Fajar Bakti. 71-87; 1987
3. Billings. S. A. Identification of Nonlinear Systems: A Survey. *Proc. Instn Electr. Engrs, Part D*, 1980, 127(6): 272-284.
4. Sheta, A. F. and De Jong, K. Parameter Estimation of Nonlinear Systems in Noisy Environments Using Genetic Algorithms. *Proceedings of the 1966 IEEE International Symposium on Intelligent Control*. September 15-18, 1966. Dearborn, Michigan: IEEE, 1966. 360-365.
5. Ahmad Zaki Abu Bakar. *Pcmprosesan Teks Bahasa Melayu Untuk Pcmahaman Komputer*. Tesis Doktor Falsafah. Universiti Teknologi Malaysia; 1989
6. British Standards Institution. *Tongued and Grooved Software Flooring*. London, BS 1297. 1987
7. Lindgren, E. A. *Screen Room Air Inlet and Wave Guard*. U.S. Patent 2, 925, 457. 1960.
8. Howick Partitioning Ltd. *Howick: Partitioning in Business*. Redhill (U.K.): Trade brochure. 1984.
9. Sheta, A. F. and De Jong, K. Parameter Estimation of Nonlinear Systems in Noisy Environments Using Genetic Algorithms. *Proceedings of the 1966 IEEE International Symposium on Intelligent Control*. September 15-18. Dearborn, Michigan: IEEE. 1966. 360-365.

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Note: Arranged in the order in which the references were cited in the thesis

**APPENDIX Z**  
**Sample of an e-thesis declaration/validation**  
**form**

UTM(PS)-1102

**School of Graduate Studies**  
**Universiti Teknologi Malaysia**

**VALIDATION OF E-THESIS PREPARATION**

**Title of the thesis :** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Degree:** \_\_\_\_\_

**Faculty:** \_\_\_\_\_

**Year:** \_\_\_\_\_

I \_\_\_\_\_

(CAPITAL LETTER)

declare and verify that the copy of e-thesis submitted is in accordance to the Electronic Thesis and Dissertation's Manual, School of Graduate Studies, UTM

\_\_\_\_\_  
(Signature of the student)

Permanent address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
(Signature of supervisor as a witness)

**Name of Supervisor:** \_\_\_\_\_

**Faculty:** \_\_\_\_\_

**Note: This form must be submitted to SPS together with the CD.**

## 3.5

## APA Reference List Examples

### 1. Book with Single Author:

Gore, A. (2006). *An inconvenient truth: The planetary emergency of global warming and what we can do about it*. Emmaus, PA: Rodale.

**In-text reference:** (Gore, 2006)

### 2. Book with Two Authors:

Michaels, P. J., & Balling, R. C., Jr. (2000). *The satanic gases: Clearing the air about global warming*. Washington, DC: Cato Institute.

**In-text reference:** (Michaels & Balling, 2000)

### 3. Book with Editor as Author:

Galley, K. E. (Ed.). (2004). *Global climate change and wildlife in North America*. Bethesda, MD: Wildlife Society.

**In-text reference:** (Galley, 2004)

### 4. Brochure or Pamphlet:

New York State Department of Health. (2002). *After a sexual assault*. [Brochure]. Albany, NY: Author.

**In-text reference:** (New York, 2002)

### 5. An Anonymous Book:

*Environmental resource handbook*. (2001). Millerton, NY: Grey House.

**In-text reference:** (Environmental Resource Handbook, 2001)

## **6. Articles in Reference Books (unsigned and signed):**

Greenhouse effect. (2005). American heritage science dictionary. Boston, MA: Houghton Mifflin.

Schneider, S. H. (2000). Greenhouse effect. World book encyclopaedia (Millennium ed. Vol. 8, pp. 382-383). Chicago, IL: World Book.

**In-text references:** (Greenhouse effect, 2005) & (Schneider, 2000)

## **7. Magazine Articles:**

Allen, L. (2004, August). Will Tuvalu disappear beneath the sea? Global warming threatens to swamp a small island nation. *Smithsonian*, 35(5), 44-52.

Begley, S., & Murr, A. (2007, July 2). Which of these is not causing global warming? A. Sport utility vehicles; B. Rice fields; C. Increased solar output. *Newsweek*, 150(2), 48-50.

**In-text references:** (Allen, 2004) (Begley, 2007)

## **8. Newspaper Articles (unsigned and signed):**

College officials agree to cut greenhouse gases. (2007, June 13). *Albany Times Union*, p. A4.

Landler, M. (2007, June 2). Bush's Greenhouse Gas Plan Throws Europe Off Guard. *New York Times*, p. A7.

**In-text references:** ("College Officials", 2007), (Landler, 2007)

## **9. Journal Article with Continuous Paging:**

Miller-Rushing, A. J., Primack, R. B., Primack, D., & Mukunda, S. (2006). Photographs and herbarium specimens as tools to document phonological changes in response to global warming. *American Journal of Botany*, 93, 1667-1674.

**In-text reference:** (Miller-Rushing, Primack, Primack, & Mukunda, 2006)

### **10. Journal Article when each issue begins with p.1:**

Bogdonoff, S., & Rubin, J. (2007). The regional greenhouse gas initiative: Taking action in Maine. *Environment*, 49(2), 9-16.

**In-text reference:** (Bogdonoff & Rubin, 2007)

### **11. Journal Article from a Library Subscription Service Database with a DOI (digital object identifier):**

Mora, C., & Maya, M. F. (2006). Effect of the rate of temperature increase of the dynamic method on the heat tolerance of fishes. *Journal of Thermal Biology*, 31, 337-341. doi: 10.1016/j.jtherbio.2006.01.055

**In-text reference:** (Mora & Maya, 2006)

### **12. Website:**

United States Environmental Protection Agency. (2007, May 4). Climate Change. Retrieved From the Environmental Protection Agency website: <http://www.epa.gov/climatechange>

**In-text reference:** (United States Environmental, 2007)

Gelspan, R. (2007). *The Heat Is Online*. Lake Oswego, OR: Green House Network. Retrieved from The Heat Is Online website: <http://www.heatisonline.org>

**In-text reference:** (Gelspan, 2007)

These are the MOST COMMON examples cited. For a complete list of examples please consult Publication manual of the American Psychological Association, 6th ed. (REF BF 76.7 .P83 2010). Feel free to ask for help at the Library's Reference/Information Desk (585-785-1432) or at the Write Place (585-785-1601).

## HARVARD STYLE REFERENCING

Material Type	In-Text Example	Reference List Example
<b>Book: Single Author</b>	(Holt 1997) or Holt (1997) wrote that...	Holt, DH 1997, <i>Management principles and practices</i> , Prentice-Hall, Sydney.
<b>Book: 2 or 3 Authors</b>	(McCarthy, William & Pascale 1997)	McCarthy, EJ, William, DP & Pascale, GQ 1997, <i>Basic marketing</i> , Irwin, Sydney.
<b>Book: More Than 3 Authors</b>	(Bond et al. 1996)	Bond, WR, Smith, JT, Brown, KL & George, M 1996, <i>Management of small firms</i> , McGraw-Hill, Sydney.
<b>Book: No Author</b>	(A history of Greece 1994)	<i>A history of Greece</i> 1994, Irwin, Sydney.
<b>Book: Editor</b>	(ed. Jones 1998)	Jones, MD (ed.) 1998, <i>Management in Australia</i> , Academic Press, London.
<b>Book: 2 or More Editors</b>	(eds Bullinger & Warnecke 1985)	Bullinger, HJ & Warnecke HJ (eds) 1985, <i>Toward the factory of the future</i> , Springer-Verlag, Berlin.
<b>Book, edition other than first.</b>	(Drafke, 2009)	Drafke, M 2009, <i>The human side of organizations</i> , 10th edn, Pearson/Prentice Hall, Upper Saddle River, N.J.
<b>Book: Translator &amp; Author</b>	(trans. Smith 2006)	Colorado, JA 2006, <i>Economic theory in the Mexican context: recent developments on the ground</i> , trans. K Smith, Oxford University Press, Oxford.
<b>Book: Organisation as Author</b>	(Australian Bureau of Agricultural and Resource Economics 2001)	Australian Bureau of Agricultural and Resource Economics 2001, <i>Aquaculture development in Australia: a review of key economic issues</i> , ABARE, Canberra.
<b>Book: Chapter or Article in Edited Book</b>	A number of disturbing facts intrude' (Milkman 1998, p 25)	Milkman, R 1998, 'The new American workplace: high road or low road?' in <i>Workplaces of the future</i> , eds. P Thompson & C Warhurst, Macmillan Press, London, pp. 22-34.

<b>eBook</b>	(Aghion & Durlauf 2005)	Aghion, P & Durlauf, S (eds) 2005, <i>Handbook of economic growth</i> , Elsevier, Amsterdam. Available from: Elsevier books. [4 November 2004].
<b>eBook: Chapter or Article in an Edited eBook</b>	'Historical thinking is actually a Western perspective' (White 2002, p 112)	White, H 2002, 'The westernization of world history' in <i>Western historical thinking: an intercultural debate</i> , ed. J Rusen, Berghahn Books, New York pp. 111-119. Available from: ACLS Humanities E-Book. [14 May 2009].
<b>Book: Different Works by Same Author in Same Year</b>	(Bond 1991a) (Bond 1991b)	Bond, G 1991a, <i>Business ethics</i> , McGraw-Hill, Sydney. Bond, G 1991b, <i>Corporate governance</i> , Irwin, London.

#### Citing company information: examples

<b>Material Type</b>	<b>In-Text Example</b>	<b>Reference List Example</b>
<b>Company Report</b>	(Aspect Huntley 2009)	Aspect Huntley DatAnalysis 2009, <i>National Australia Bank Limited company report</i> . Available from: Aspect Huntley DatAnalysis. [20 May 2009].
<b>Company Profile</b>	(Datamonitor 2009)	Datamonitor 2009, <i>Wesfarmers Limited company profile</i> . Available from: Business Source Premier. [20 May 2009].
<b>Financial Data</b>	(Datastream 2009)	Datastream 2009, <i>S&amp;P/ASX200 daily index data 2000-2009</i> . Available from: Datastream. [20 May 2009].

#### Citing conference proceedings: examples

<b>Material Type</b>	<b>In-Text Example</b>	<b>Reference List Example</b>
<b>Conference Proceeding Paper: Print</b>	(Riley 1992)	Riley, D 1992, 'Industrial relations in Australian education', in <i>Contemporary Australasian industrial relations: proceedings of the sixth AIRAANZ conference</i> , ed. D Blackmur, AIRAANZ, Sydney, pp. 124-140.
<b>Conference Proceeding Paper: Electronic</b>	(Fan, Gordon & Pathak 2000)	Fan, W, Gordon, MD & Pathak, R 2000, 'Personalization of search engine services for effective retrieval and knowledge management', <i>Proceedings of the twenty-first international conference on information systems</i> , pp. 20-34. Available from:

		ACM Portal: ACM Digital Library. [24 June 2004].
<b>Conference Proceeding Paper: Unpublished</b>	(Brown & Caste 1990)	Brown, S & Caste, V 2004, 'Integrated obstacle detection framework'. Paper presented at the <i>IEEE Intelligent Vehicles Symposium</i> , IEEE, Detroit MI.

**Citing material from the Internet/websites: examples**

<b>Material Type</b>	<b>In-Text Example</b>	<b>Reference List Example</b>
<b>Webpage: No Author</b>	(Improve indigenous housing 2007)  <i>Use first few words of the page title</i>	<i>Improve indigenous housing now, government told</i> 2007. Available from: < <a href="http://www.architecture.com.au/i-cms?page=10220">http://www.architecture.com.au/i-cms?page=10220</a> >. [8 February 2009].
<b>Webpage: No Date</b>	(Jones, n.d.)	Jones, MD n.d., <i>Commentary on indigenous housing initiatives</i> . Available from: < <a href="http://www.architecture.com.au">http://www.architecture.com.au</a> >. [6 June 2009].
<b>Web Document</b>	(Department of Industry, Tourism and Resources 2006)	Department of Industry, Tourism and Resources 2006, <i>Being prepared for an influenza pandemic: A kit for small businesses</i> , Government of Australia, Available from: < <a href="http://www.innovation.gov.au">http://www.innovation.gov.au</a> >. [28 February 2009].
<b>Website</b>	(Australian Securities Exchange 2009)	Australian Securities Exchange 2009, <i>Market Information</i> . Available from: < <a href="http://www.asx.com.au/professionals/market_information/index.htm">http://www.asx.com.au/professionals/market_information/index.htm</a> >. [5 July 2009].
<b>Blog</b>	(Newton 2007)	Newton, A. 2007, Newcastle toolkit. 16 January 2007. <i>Angela Newton: Blog</i> . Available from: < <a href="https://elgg.leeds.ac.uk/libajn/weblog/">https://elgg.leeds.ac.uk/libajn/weblog/</a> >. [23 February 2007].
<b>Computer Software</b>	(OpenOffice.org 2005)	OpenOffice.org, computer software 2005. Available from: < <a href="http://www.openoffice.org">http://www.openoffice.org</a> >. [11 January 2005].
<b>Web Based Image / table / figure</b>	(The Lunar Interior 2000)	<i>The Lunar Interior</i> , 2000. Available from: < <a href="http://www.planetscapes.com/solar/browse/moon/moonint.jpg">http://www.planetscapes.com/solar/browse/moon/moonint.jpg</a> >. [28 November 2000].

### Citing journal articles: examples

<b>Material Type</b>	<b>In-Text Example</b>	<b>Reference List Example</b>
<b>CMO Article</b>	(Jennings 1997)	Jennings, P 1997, 'The performance and competitive advantage of small firms: a management perspective', <i>International Small Business Journal</i> , vol. 15, no. 2, pp. 63-75. Available from: The University of Western Australia Library Course Materials Online. [1 September 2004].
<b>Journal Article: Print</b>	(Conley & Galeson 1998)	Conley, TG & Galeson, DW 1998, 'Nativity and wealth in mid-nineteenth century cities', <i>Journal of Economic History</i> , vol. 58, no. 2, pp. 468-493.
<b>Journal Article: Electronic Database</b>	(Liveris 2011)	Liveris, A 2011, 'Ethics as a strategy', <i>Leadership Excellence</i> , vol. 28, no. 2, pp.17-18. Available from: ProQuest. [23 June 2011].

### Citing lecture notes: examples

<b>Material Type</b>	<b>In-Text Example</b>	<b>Reference List Example</b>
<b>Lecture Notes</b>	(Foster 2008)	Foster, T 2004, <i>Balance sheets</i> , lecture notes distributed in Financial Accounting 101 at The University of Western Australia, Crawley on 2 November 2008.

### Citing multimedia formats: examples

<b>Material Type</b>	<b>In-Text Example</b>	<b>Reference List Example</b>
<b>Video/DVD</b>	(Effective performance appraisals 1994)	<i>Effective performance appraisals</i> 1994, [video recording], Melbourne, Educational Media Australia.
<b>Television Programme</b>	(Crystal 1993)	Crystal, L (executive producer) 1993, <i>The MacNeil/Lehrer news hour</i> (television broadcast) 11 October 1993, New York and Washington DC, Public Broadcasting Service.
<b>Audio Podcast</b>	(Van Nuys 2007)	Van Nuys, D (producer) 2007, 'The anatomy of a lobotomist [Show 84]', <i>Shrink Rap Radio</i> (podcast). Available from: < <a href="http://www.shrinkrapradio.com/">http://www.shrinkrapradio.com/</a> >. [11 April 2007].
<b>Video Podcast</b>	(Kloft 2006)	Kloft, M (producer/director) 2006, The Nuremberg trials (motion picture), in M.Sameuls (executive producer), <i>American experience</i> (podcast). Available from:

		< <a href="http://www.pbs.org/wgbh/amex/rss/podcast_pb.xml">http://www.pbs.org/wgbh/amex/rss/podcast_pb.xml</a> >. [4 March 2006].
<b>Music Track from an Album</b>	(Shocked 1992)	Shocked, M 1992, 'Over the waterfall', on <i>Arkansas Traveller</i> (CD). New York, Polygram Music.
<b>Video Blog Post</b>	(Norton 2006)	Norton, R 2006, 'How to train a cat to operate a light switch' (video file). Available from: < <a href="http://www.youtube.com/watch?v=Vja83KLQXZs">http://www.youtube.com/watch?v=Vja83KLQXZs</a> >. [4 November 2006]

### Citing newspaper articles: examples

<b>Material Type</b>	<b>In-Text Example</b>	<b>Reference List Example</b>
<b>Newspaper: Print</b>	(Ionesco 2001)	Ionesco, J 2001, 'Federal election: new Chip in politics', <i>The Advertiser</i> 23 October, p. 10.
<b>Newspaper: Electronic Database</b>	(Meryment 2006)	Meryment, E 2006, 'Distaff winemakers raise a glass of their own to their own', <i>The Australian</i> 7 October, p. 5. Available from: Factiva. [2 February 2007].
<b>Newspaper: From a Website</b>	(Hilts 1999)	Hilts, PJ 1999, 'In forcasting their emotions, most people flunk out', <i>The New York Times</i> 16 February. Available from: < <a href="http://www.nytimes.com">http://www.nytimes.com</a> >. [19 February 2000].

### Citing patents: examples

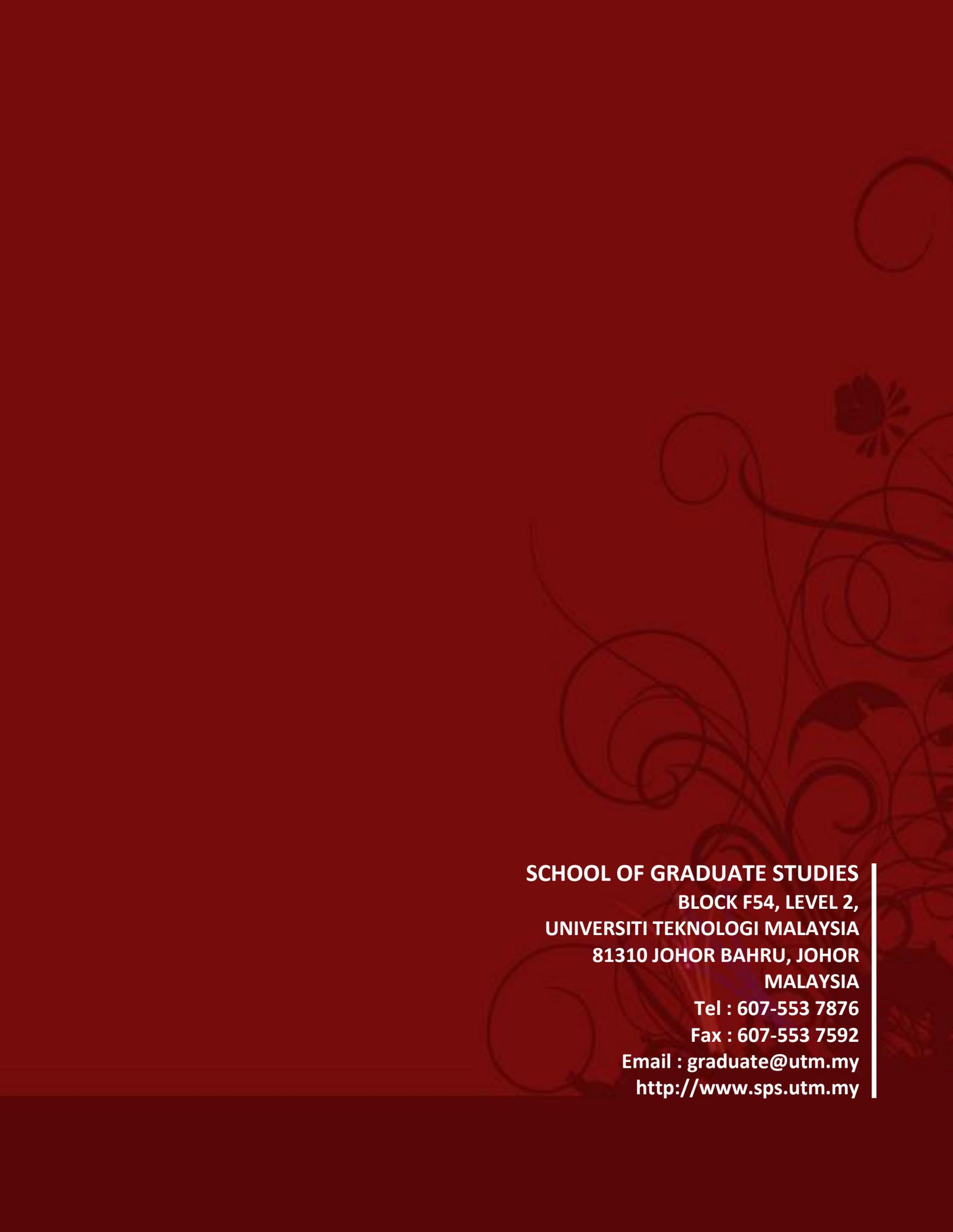
<b>Material Type</b>	<b>In-Text Example</b>	<b>Reference List Example</b>
<b>Patent</b>	(Cookson 1985)	Cookson, AH 1985, <i>Particle trap for compressed gas insulated transmission systems</i> , US Patent 4554399.
<b>Patent: Retrieved From a Database</b>	(Mccallum 2008)	Mccallum, JM (2008). <i>Method for and composition of excipient suitable for use in herbal formulations and formulations derived therefrom</i> , Australian Patent AU 2008100919. Available from: SciFinder Scholar. [8 December 2008].

### Citing standards: examples

<b>Material Type</b>	<b>In-Text Citation</b>	<b>Reference List Entry</b>
<b>Standard: Retrieved From a Database</b>	(Standards Australia 2008)	Standards Australia 2008, <i>Personal floatation devices - General requirements</i> . AS 4758.1-2008. Available from: Standards Australia Online. [1 December 2008].
<b>Standard: Published</b>	(Standards Australia/New Zealand Standard 1994)	Standards Australia 1994, <i>Information processing - text and office systems - office document architecture (ODA) and interchange format: part 10: formal specifications</i> , AS/NZS 3951.10:1994, Standards Australia, NSW.

### Citing theses: examples

<b>Material Type</b>	<b>In-Text Citation</b>	<b>Reference List Entry</b>
<b>Thesis: Unpublished</b>	(Hos 2005)	Hos, JP 2005, <i>Mechanochemically synthesized nanomaterials for intermediate temperature solid oxide fuel cell membranes</i> . Ph.D thesis, University of Western Australia.
<b>Thesis: Published</b>	(May 2007)	May, B 2007, <i>A survey of radial velocities in the zodiacal dust cloud</i> . Bristol UK, Canopus Publishing.
<b>Thesis: Retrieved From a database</b>	(Baril 2006)	Baril, M 2006, <i>A distributed conceptual model for stream salinity generation processes: a systematic data-based approach</i> . WU2006.0058. Available from: Australasian Digital Theses Program. [12 August 2008].



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**<http://www.sps.utm.my>**