



الجامعة  
UNIVERSITI  
TEKNOLOGI  
MARA

Institut  
Pengajian Siswazah

# GUIDELINES on THESIS / DISSERTATION FORMAT

2026

**INSTITUTE OF  
POSTGRADUATE STUDIES  
UNIVERSITI TEKNOLOGI MARA**

**GUIDELINES ON THESIS/DISSERTATION  
FORMAT**

**2026**

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## PREAMBLE

The Institute of Postgraduate Studies (IPSiS) of Universiti Teknologi MARA (UiTM) has created this handbook on the Guidelines for Thesis/Dissertation Format of Graduate Programs to assist students in preparing their thesis/dissertation in accordance with UiTM Thesis/Dissertation Style. It was initially developed based on the 6th Edition of the American Psychological Association (APA).

The development of these guidelines would not have been possible without the invaluable contributions of those involved in the original 2013 version, the revised 2017 and 2024 version that is supported by the MS Word Template.dotx developed by MZJ Formatting Method team.

It is also deeply grateful to the new contributors who dedicated their time and knowledge to revising and updating these guidelines. Their efforts have ensured that these guidelines remain relevant as the thesis's language is now expanding to Malay and Arabic, which affecting the MS Word template handling and formatting.

To help students prepare their final thesis in English, Malay, or Arabic, this 2026 edition guideline makes a few minor modifications to the styles and formats in line with the updated MS Word UiTM Thesis Template.

The following are the thesis/dissertation formatting and submission processes guidelines that must be taken into consideration:

- Technical Specification
- Layout and Arrangement of Contents
- Body of Thesis/Dissertation
- Reference Materials
- Writing Conventions
- Quality and Integrity of the Thesis/Dissertation
- Appendices

## 1. TECHNICAL SPECIFICATION

### 1.1 Length of Thesis/Dissertation

Total number of words for the Doctoral/Master's thesis is based on the MQA programme standard and listed in APPENDIX A for each faculty. The total number of words does not include endnotes, quotations, appendixes, tables, and diagrams.

### 1.2 Organizational Structure and Format

Students are to adhere to the following organisational structure and format:

#### i. Font

Times New Roman typeface should be used. Title should be set in upper case, bold, 14-font size. The abstract, acknowledgement, and the main body of the thesis/dissertation should be set in 12-font size.

#### ii. Heading and Subheadings

- Main Heading  
Flushed left, bold, Title Case/Capitalize Each Word, font 12.

Example:

#### **1.1 Background of Study**

- Sub-Heading  
Flushed left, bold, Title Case/Capitalize Each Word, font 12.

Example:

#### **1.1.1 Role of an Effective Leader**

- Sub Sub-Heading  
Flushed left, bold, italics, Title Case/Capitalize Each Word, font 12.

Example:

#### ***1.1.1.1 Leader as a Facilitator***

Note: Limit to 3 levels of heading if possible in the text.

**iii. Margins (Body of the Thesis)**

A margin is the amount of blank space from the edge of the page to any print, be it a heading, page number, figure, or text. The finished manuscript must have the margins indicated below. Margin requirements extend to tables, figures, and material in the appendix. A proper setting of the printer is required to ensure the final manuscript is printed as specified. You may want to use a ruler to measure the actual margins since interfaces between computers and printers can vary the measurement of the margins. Note that all margins must be specified as follows:

Left margin	3.8 cm or 1.5 inches
Right margin	2.5 cm or 1.0 inch
Top margin (Portrait)	2.5 cm or 1.0 inch
Top margin (Landscape)	3.8 cm or 1.5 inches
Bottom margin	2.5 cm or 1.0 inch

**iv. Paragraphs and Line Spacing**

The first line of all paragraphs should be indented one-tab key from the left-hand margin. The main body text should be justified. In the main body, use 1.5-line spacing. Leave a 1.5 line spacing before a heading. Do not leave a line between paragraphs.

**v. Pagination**

Page numbers should be placed at the bottom of the page and centred. Each page in the thesis/dissertation, from the body onward, should be numbered in consecutive order. This includes the text, references, and appendices. Preliminary pages carry lowercase Roman numerals (ii, iii, iv, etc.). The first page of CHAPTER 1 marks the starting of pagination in Western Arabic numerals (1, 2, 3, etc.)

**vi. Layout and Arrangement of Contents**

For the following, refer to the appendices:

- Title Page (APPENDIX D)
- Confirmation by Panel of Examiners (APPENDIX E)
- Author’s Declaration (APPENDIX F)
- Abstract (APPENDIX G)
- Acknowledgement (APPENDIX H)
- Table of Contents (APPENDIX I)
- List of Tables (APPENDIX J)
- List of Figures (APPENDIX K)
- List of Plates (APPENDIX L)
- List of Symbols (APPENDIX M)
- List of Abbreviations (APPENDIX N)
- List of Nomenclatures (APPENDIX O)

**vii. Chapters, Tables, Figures and Plates**

a) Chapter

Chapters are numbered using Western Arabic numerals, e.g. “CHAPTER 1, CHAPTER 2, CHAPTER 3”.

b) Figure

Figures include maps, charts, diagrams, drawings, etc. Each of these categories is numbered according to chapters using Western Arabic numerals throughout the thesis.

c) Table

Tables are numbered by chapters using Western Arabic numerals.

d) Plate

Plates are printed images, photos and are numbered by chapters using Western Arabic numerals.

Note: Refer to APPENDIX P, page 43.

### viii. Equations and Formulae

Every equation should be centred and numbered continuously, according to the chapters and in parentheses “()” aligned to the right. Font size of 12. Refer to Section 5.1 for writing conventions.

Note: In MS Word, insert a table with two columns and one row to add a new equation to the thesis. Refer to APPENDIX P, page 43. Remove the outline (dashed-line) of the table.

### ix. Suggested Body of Thesis/Dissertation

The body of the thesis/dissertation is made up of a number of chapters. The major chapters of the thesis/dissertation should include **but not limited** to the following:

Science and Technology	Social Science and Business Management
Introduction Literature Review Research Methodology Results Discussion Conclusions and Recommendations	Introduction Literature Review Research Methodology Findings & Analysis Discussion Conclusions and Recommendations

## 1.3 Citation and Referencing

### i. Citation and Referencing Styles

The citation and referencing for thesis/dissertation must follow the APA style. The citation and referencing styles should be used consistently throughout the thesis/dissertation.

### ii. In-text Citations

In-text citation style is to be used throughout the thesis/dissertation in the following examples.

e.g. The results of this study were inconclusive (Habibah, 2022) (or) According to Habibah (2022), the results of this study were inconclusive (or) Habibah (2022), stated that the results of this study were inconclusive.

## **1.4 Thesis/Dissertation in Arabic Language**

### **i. Keyboard Setting**

- For Windows: Install and change the keyboard setting to Arabic (Arab Saudi) through Language Preference.
- For MS Word: Go to File > Options > Language. Set Arabic as the Default editing language.

### **ii. Eastern Arabic Numerals Setting**

In MS Word to correctly display the Eastern Arabic numeral (١ ٢ ٣ ٤):

- Go to File > Options > Advanced. Scroll down to the “Show document content” section.
- Under Numeral option, set it to "Hindi".
- Set “Document view” setting to “Right-to-left”.

### **iii. Formatting**

Traditional Arabic font should be used throughout the thesis. Title should be set in upper case, bold, 26-font size (cover page). The abstract, acknowledgement, and main body of the thesis/dissertation should be set in 18-font size.

Should there be a combination of Arabic and English words in the abstract, acknowledgement, and main body of the thesis/dissertation, the font for English is set to be 12-font size with Times New Roman font type.

For more specific thesis formatting’s i.e. font size, refer to the UiTM Arabic Thesis Template since the font size is different from Times New Roman font. (Refer to APPENDIX T)

## **1.5 Thesis/Dissertation Submission for Viva-Voce**

### **i. Softcopy**

A softcopy of the thesis/dissertation is required to be submitted for the viva-voce. The full title, the name of the author, the name of the degree, and the year of submission should be typed on the title page. (Refer to APPENDIX B and APPENDIX D)

### **ii. Hardcopy**

Should the examiner request a hardcopy of the thesis for the examination, the thesis should be spiral-bound.

## **1.6 Final Copy of Thesis/Dissertation**

### **i. Digital Thesis**

Once corrections have been endorsed by examiner(s) and approval letter for final submission is issued, a softcopy should be prepared and must undergo thesis checking process. The thesis must follow UiTM thesis formatting before final submission for the degree to be endorsed in the Senate meeting.

### **ii. Hardcopy of Final Thesis/Dissertation**

A hardcopy is an optional, however, if it is required to be produced, e.g. for student's or supervisor's personal record, the following are to be adhered to:

- **Front Cover**

A Master's thesis/dissertation should be hardbound in dark blue colour, while a Doctoral thesis/dissertation should be hardbound in maroon colour. The cover of the hardcopies must be lettered in gold.

- **Paper Quality**

Quality plain white simile paper (80gm) of A4 size (210 x 297 mm) should be used for all copies of the thesis/dissertation. Text or

illustrations should be printed on only one side of each sheet or as stipulated by the Faculty. Only original quality printed copies will be accepted.

- **Cover Spine and Front Cover**

The following particulars should be lettered in gold (direction of text from head to foot), using 16-point font. Refer to APPENDIX C:

- Universiti Teknologi MARA
- Title of thesis/dissertation
- Full name of student as in NRIC/passport
- Degree acronym (refer to APPENDIX B)
- Month of final hardbound submission for binding and year of submission (e.g. July 2026)
- The full name of the Faculty

Note: **Cover Spine** is only required for the **hardbound** purpose.

## **2. LAYOUT AND ARRANGEMENT OF CONTENTS**

### **2.1 Title Page**

This page should contain the following information. Refer to APPENDIX D:

- The name of the University is written in full, bold, uppercase and centred using 18-point font:
- The final title used must be the one approved by the panel of examiners. It should be centred, uppercase, bold and single-spaced using 18-point size.
- Name of the author must be uppercase and bold using 14-point size.
- The degree for which the thesis/dissertation is submitted is typed in title case using 14-point font. (e.g. Master of Science, Master of Education, Doctor of Philosophy in Education) as stated in the offer letter issued by UiTM. It should be indicated that the thesis/dissertation is being submitted for either partial fulfilment or in fulfilment of the requirements for that particular degree as shown below:

Thesis submitted in fulfilment  
of the requirements for the degree of  
**Master of Science**  
**(Science Sports & Recreation)**

**Faculty of Science Sports & Recreation**

**July 2026**

OR

Dissertation submitted in partial fulfilment  
of the requirements for the degree of  
**Master of Science**  
**(Science Sports & Recreation)**

**Faculty of Science Sports & Recreation**

**July 2026**

- The faculty in which the student is registered is written in title case and bold using 14-point size.
- The combination of month and year of the final hardbound submission for binding is to be stated 2 cm below the name of the faculty, 14-point size and bold.

## **2.2 Confirmation by Panel of Examiners**

The student is provided with a copy of the Confirmation by Panel of Examiners which names should be included in the preliminary page (ii). The page is signed by the current Dean of IPSis. Refer to APPENDIX E.

## **2.3 Author's Declaration**

The student should place this page before the abstract page, a signed author's declaration stating the material presented for examination is her/his own work or how far the work contained in the thesis/dissertation was the student's own work, and stating that the thesis/dissertation is not being submitted for any other academic award. Refer to APPENDIX F.

## **2.4 Abstract**

The abstract should give a brief statement of the research problems, aims of the research, methodologies used, key findings in the context of the whole study, and implications of the study. It should not be less than 200 words (Master's degree) and 250 words (PhD degree) and must not exceed one page. The abstract should be typed in single spacing and placed immediately before the Acknowledgement. Refer to APPENDIX G.

## **2.5 Acknowledgement**

A brief statement of appreciation in recognition of any special assistance rendered to the student during the period of research, should be included. All supervisors (main and co-supervisors) are required to be mentioned. It should be typed in single spacing and should not exceed one page in length. Refer to APPENDIX H.

## **2.6 Table of Contents**

Titles of chapters, headings, and subheadings must be listed in the Table of Contents and must be worded exactly as they appear in the body of the thesis/dissertation. All headings and sub-headings are numbered and to be justified to the left. Refer to APPENDIX I.

## **2.7 List of Tables, Figures and Plates**

- a) Tables (refer to APPENDIX J)
- b) Figures (refer to APPENDIX K)
- c) Plates (refer to APPENDIX L)

The numbers & the captions must be listed in the order they appear in the text.

## **2.8 List of Symbols, Abbreviations and Nomenclatures**

- a) List of Symbols (refer to APPENDIX M)
- b) List of Abbreviations (refer to APPENDIX N)
- c) List of Nomenclatures (refer to APPENDIX O)

These must appear after the lists of tables, figures and plates.

### **3. BODY OF THESIS/DISSERTATION**

The text is made up of a number of chapters. The major chapters of the thesis/dissertation should include but not limited to the following:

#### **3.1 Introduction**

This section sets forth the rationale, significance, and objectives of the study. It includes background of the study, problem statement, research objectives, research questions, hypotheses to be tested (subject to discipline of study), significance of study, limitations, the scope of study and definitions of terms (subject to discipline of study).

#### **3.2 Literature Review**

This section includes a fully-referenced review and discussions of previous studies which are relevant to the research.

#### **3.3 Research Methodology**

This section gives a detailed description of the research methods and instruments/materials used. Research methods should include experimental design, the number of subjects, apparatus, etc.

#### **3.4 Results/Data Analysis**

This section provides the results and analysis of data. The results obtained can be presented as a series of figures, tables, etc., with descriptive texts and discussions.

#### **3.5 Discussion**

This section focuses on the results of the study in relation to the hypotheses or the research questions. It highlights the main findings, their significance and implications. The results should be interpreted in the light of what is already known and emphasis should be placed on what the results add to the subject area. Strengths and weaknesses of the results should be discussed.

### **3.6 Conclusions and Recommendations**

This section highlights the contribution of the findings to new knowledge and applications. It should also discuss the limitations faced in carrying out the research and the recommendations for future research.

Students may make changes to the above structure of the thesis/dissertation according to discipline of study.

## **4. REFERENCE MATERIALS**

### **4.1 References**

The heading REFERENCES should be left aligned, bold, uppercase, 14-point size. This list must include all the references that students have cited in the text of the thesis/dissertation.

Students must use the APA style in writing their references. APA citation style should be used consistently throughout the thesis/dissertation.

### **4.2 Appendices**

This section may contain supplementary illustrative materials such as original data, questionnaires, formulas and quotations too long for inclusion in the text or not immediately essential to the understanding of the subject. A description of lengthy experimental methods or the list of names of participants may be included.

If the paper has only one appendix, it is labelled as APPENDIX (Uppercase, bold, centred, 12-point size). If it has more than one appendix, each is labelled with a capital letter such as APPENDIX A, APPENDIX B etc.

Point size for the title and the text should be 12. Text should be justified. If, for example, there is more than one appendix for APPENDIX A, then it will be titled APPENDIX A1, APPENDIX A2, etc. (Refer to APPENDIX R)

### **4.3 Author's Profile**

Students are required to include a page on their profiles with the following:

- A passport size photo.
- A short autobiography on academic achievements, working experience and professional career. It should be typed in 1.5 spacing.
- List of publications.

## **5. WRITING CONVENTIONS**

### **5.1 Math**

- i) Variables are set in italic; vectors and matrices are usually boldface italic.
- ii) Remove commas around variables in text.
- iii) Always add a zero before decimals, but do not add after (e.g., 0.25).
- iv) Spell out units in text without quantities (e.g., where the noise is given in decibels).
- v) Numbers and units used as compound adjectives should be hyphenated only if needed for clarity (e.g., 10-kV voltage; 5-in-thick glass).
- vi) Use thin spaces (instead of a comma) between numbers in tens or hundreds of thousands (e.g., 60 000, 100 000, but 4000).
- vii) Use zeroth, first, second or ninety-ninth not 0th, 1st, 2nd or 99th in text.
- viii) Use the word "Equation (1)" at the start of a sentence only, but in text just use the number (e.g., "in (1)"), unless describing an equation (e.g., "refer to Darlington equation (1)"). Refer to APPENDIX P page 43.
- ix) The slash is used in place of the word "per" when it leads to the clarity of the sentence (e.g., "the ratio of 16 samples/s to 35 samples/s as compared to...")
- x) Use "indices" instead of "indexes" when referring to subscripts.
- xi) Plural variables have an "s".

## 5.2 Ellipsis

Ellipsis (...) may be used to show continuation in an expression (e.g.,  $x_2, \dots, x_{16}$ ). The type of mathematical expression will determine whether the ellipsis are on the baseline or centred.

## 5.3 Conditions

In displayed equations, there should be a comma or parentheses and a space between the main expression and the condition following it. For example,

- a)  $X=yn^{-2}$ , for all  $n=3$
- b)  $X=yn^{-2}$ ,  $\forall n=3$
- c)  $X=yn^{-2}$ , if  $n=3-y^{-4}$
- d)  $X=yn^{-2}$ ,  $y_3, \dots, m$

## 5.4 Use of Period and Commas

Equations that conclude a sentence should end with a period. The only time punctuation is used to lead into an equation when the lead-in text is a complete sentence. Example:

where we had the following:

$$x=Y+Z.$$

or, where, i.e.,

$$x=Y+Z.$$

Commas appearing at the ends of equations are deleted unless they are critical to the punctuation of the sentence containing the equation.

## 5.5 Displayed Equations

Certain types of material in displayed equations are automatically italic. Some simple general rules apply. All variables are italic. (e.g.,  $x$ ,  $y$ ,  $n$ ). Function names and abbreviations are Roman (sin, cos, sinc, sinh), as are units or unit abbreviations (e.g., deg, Hz,) complete words (e.g., in, out), and abbreviations of words (e.g., max, min), or acronyms (e.g., SNR). Single letter superscripts and subscripts may be italic even if they are abbreviations, unless this leads to inconsistency between italic and roman characters for similar types of subscripts.

## 5.6 Direct Quotations

The quotation needs to be true to the original, quoted in the text to support argument.

Example:

Crompton (2004), confirmed that *“the real estate market consistently demonstrates that many people are willing to pay a larger amount for a property located close to parks and open space areas than for a home that does not offer this amenity.”*

## 6. QUALITY AND INTEGRITY OF THE THESIS/DISSERTATION

Students are reminded that consistency and accuracy of the submitted thesis/dissertation are important. Careful editing is required in order to ensure that the thesis/dissertation is free of errors before submission for thesis/dissertation examination.

### 6.1 Plagiarism

Plagiarising is strictly prohibited. Action will be taken in accordance to UiTM Plagiarism Policy.

Plagiarism is passing off the idea or words of someone else as though they were their own. It applies equally to the work of other students or researchers as well as to other published and unpublished sources. Students are responsible for writing their thesis/dissertations in their own words.

Quotations from published or unpublished sources and the sources of any other materials should be clearly cited and acknowledged. A systematic style of citation and references according to the chosen style of referencing must be adhered to. Sources of visual presentations such as photographs or maps must also be clearly indicated.

Students are reminded that UiTM takes a serious view on plagiarism. Before submission of the thesis/dissertation, supervisors are required to check the students' work for plagiarism using software recognized by IPSis. A copy of the Originality Report produced by the software must be submitted together with the final thesis/dissertation. If the percentage (similarity index) is higher than the acceptable level of Originality Report, students have to revise their work or face action for plagiarism, which may lead to suspension or expulsion from the programme. Reference regarding this should be made to the IPSis Academic Rules and Regulations and UiTM Plagiarism policy and guidelines for regulations pertaining to plagiarism.

Upon submission of the thesis/dissertation, students must also insert a signed Author's Declaration page declaring that the work is original and free from plagiarism.

The incorporation of any material which has been submitted earlier to a degree awarding body is also unacceptable.

## **6.2 How to Avoid Plagiarism**

### **i. Copying**

Nothing should be copied without explicit acknowledgement as described below under 'quoting'. This includes copying the work of other students/researchers.

### **ii. Quoting**

Direct quotations (from a book or paper) are entirely acceptable provided that they are referenced properly:

Open and close quotation marks should be used and the sentence(s) is to be italicised. Sources should be provided in the text, using an acceptable APA citation style (e.g. Smith, 1986, p. 21). Details of the source should be written in the reference list.

**iii. Paraphrasing**

A writer paraphrases when he/she puts someone else's idea into his/her own words. Paraphrasing is entirely acceptable provided that it is acknowledged. A general rule for acceptable paraphrasing is that an acknowledgement be made in every paragraph. There are many ways in which such an acknowledgement can be made (e.g. Smith (1996) goes on to argue that or Smith (1996) provides further proof that...).

**iv. General Indebtedness**

This can be a difficult area. If there is any doubt, students should cite the source. If the whole manner in which a student thinks about an issue is drawn primarily from one source, then the source should be cited. If the ordering of evidence and argument or the organisation of material reflects one particular source, then this should be cited.

**6.3 Ethical Use of Artificial Intelligence (AI)**

Students are advised to use AI ethically and transparently. Ensure that the tools are used appropriately (as guided by the supervisors), openly (declared use), honestly and ethically (complying with assessment rules and guidance).

**6.4 Final Editing**

The student is responsible for writing, preparing and submitting the thesis/dissertation within the stipulated time period.

A student should scrutinize his/her thesis/dissertation for consistency throughout the document and be critical of the content, presentation and format. The varying needs of the different disciplines may demand different lengths of thesis/dissertation but students are advised to adhere to the format stipulated by IPSis UiTM.

**APPENDIX A: TOTAL OF WORD COUNTS FOR DOCTORAL & MASTERS THESIS**

**Table A1 : Social Sciences & Humanities (Research)**

No	Faculty / Academy / Centre	PhD		Master	
		Min	Max	Min	Max
1	Faculty of Law	80,000	100,000	40,000	50,000
2	Academy of Language Studies (APB)	75,000	100,000	31,000	40,000
3	Faculty of Administrative Science & Policy	80,000	100,000	30,000	50,000
4	Faculty of Education	80,000	100,000	50,000	60,000
5	Academy of Contemporary Islamic Studies (ACIS)	60,000	100,000	30,000	60,000
6	Faculty of Communication & Media Studies	75,000	100,000	30,000	50,000
7	Faculty of Art and Design	80,000	100,000	30,000	50,000
8	Faculty of Film, Theatre & Animation	70,000	100,000	25,000	50,000
9	Faculty of Music	50,000	80,000	30,000	50,000

**Table A2 : Business and Management (Research)**

No	Faculty / Academy / Centre	PhD		Master	
		Min	Max	Min	Max
1	Faculty of Accountancy	80,000	100,000	30,000	50,000
2	Accounting Research Institute (ARI)	80,000	100,000	30,000	50,000
3	Faculty of Business & Management	60,000	100,000	30,000	50,000
4	Faculty of Hotel & Tourism Management	60,000	100,000	30,000	50,000
5	Malaysia Institute of Transport (MITRANS)	80,000	100,000	30,000	50,000

**Table A3 : Science and Technology (Research)**

No	Faculty / Academy / Centre	PhD		Master	
		Min	Max	Min	Max
1	Faculty of Applied Sciences	30,000	100,000	20,000	50,000
2	Faculty of Built Environment	30,000	100,000	20,000	50,000
3	Faculty of Chemical Engineering	30,000	100,000	20,000	50,000
4	Faculty of Civil Engineering	30,000	100,000	20,000	50,000
5	Faculty of Electrical Engineering	30,000	100,000	20,000	50,000
6	Faculty of Mechanical Engineering	30,000	100,000	20,000	50,000
7	Faculty of Computer and Mathematical Sciences	30,000	100,000	20,000	50,000
8	Faculty of Information Science	80,000	100,000	20,000	50,000
9	Faculty of Dentistry	30,000	100,000	20,000	50,000
10	Faculty of Health Sciences	60,000	100,000	20,000	50,000
11	Faculty of Medicine	60,000	100,000	20,000	50,000
12	Faculty of Pharmacy	30,000	100,000	20,000	50,000
13	Faculty of Plantation and Agrotechnology	30,000	100,000	20,000	50,000
14	Faculty of Sports Science and Recreation	30,000	100,000	20,000	50,000

**Table A4 : PhD & Masters by Mixed Mode**

Cluster	PhD		Master	
	Min	Max	Min	Max
Social Science and Humanities	80,000	100,000	50,000	50,000
Business and Management	80,000	100,000	50,000	50,000
Science and Technology	30,000	100,000	50,000	50,000

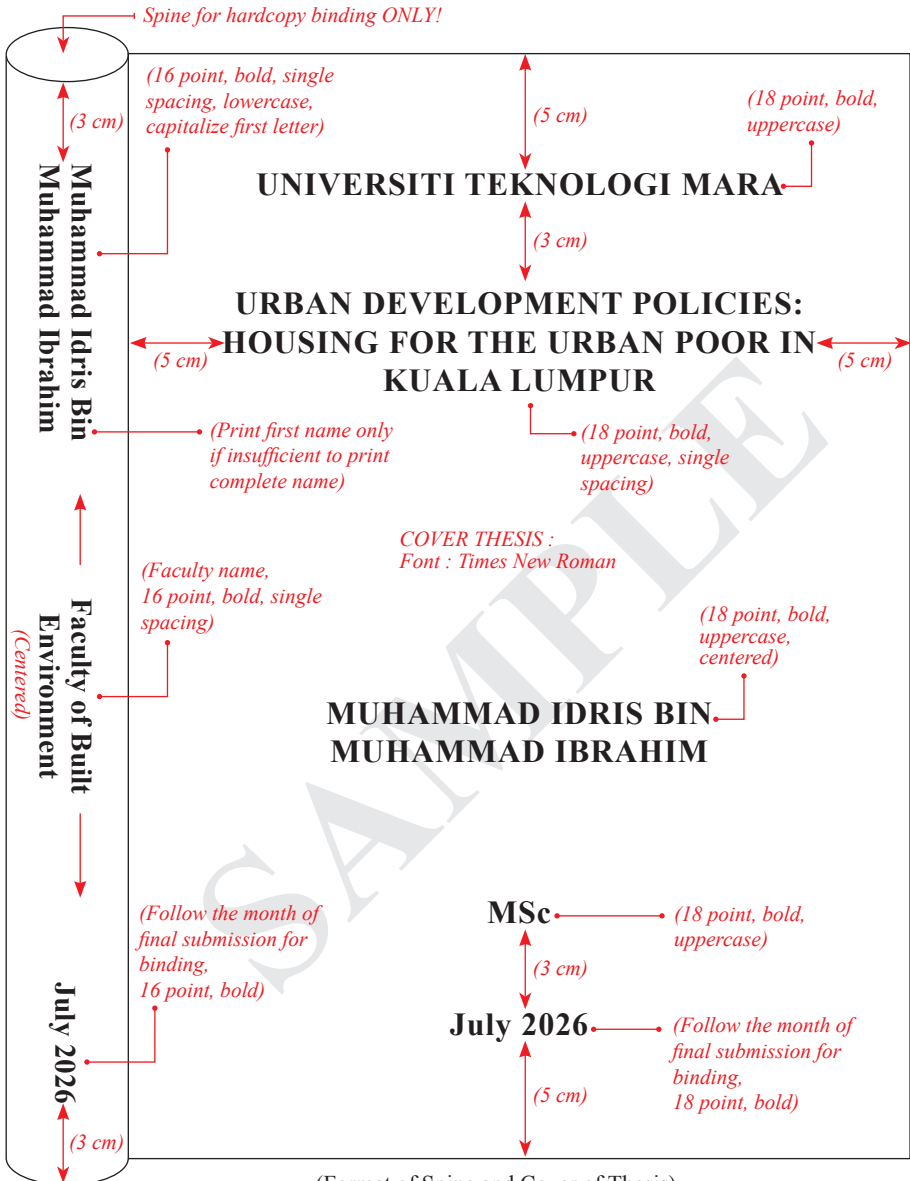
**Table A5 : PhD by Coursework**

Faculty / Academy / Centre	Minimum	Maximum
All	40,000	75,000

**APPENDIX B: LIST OF DEGREE ACRONYM**

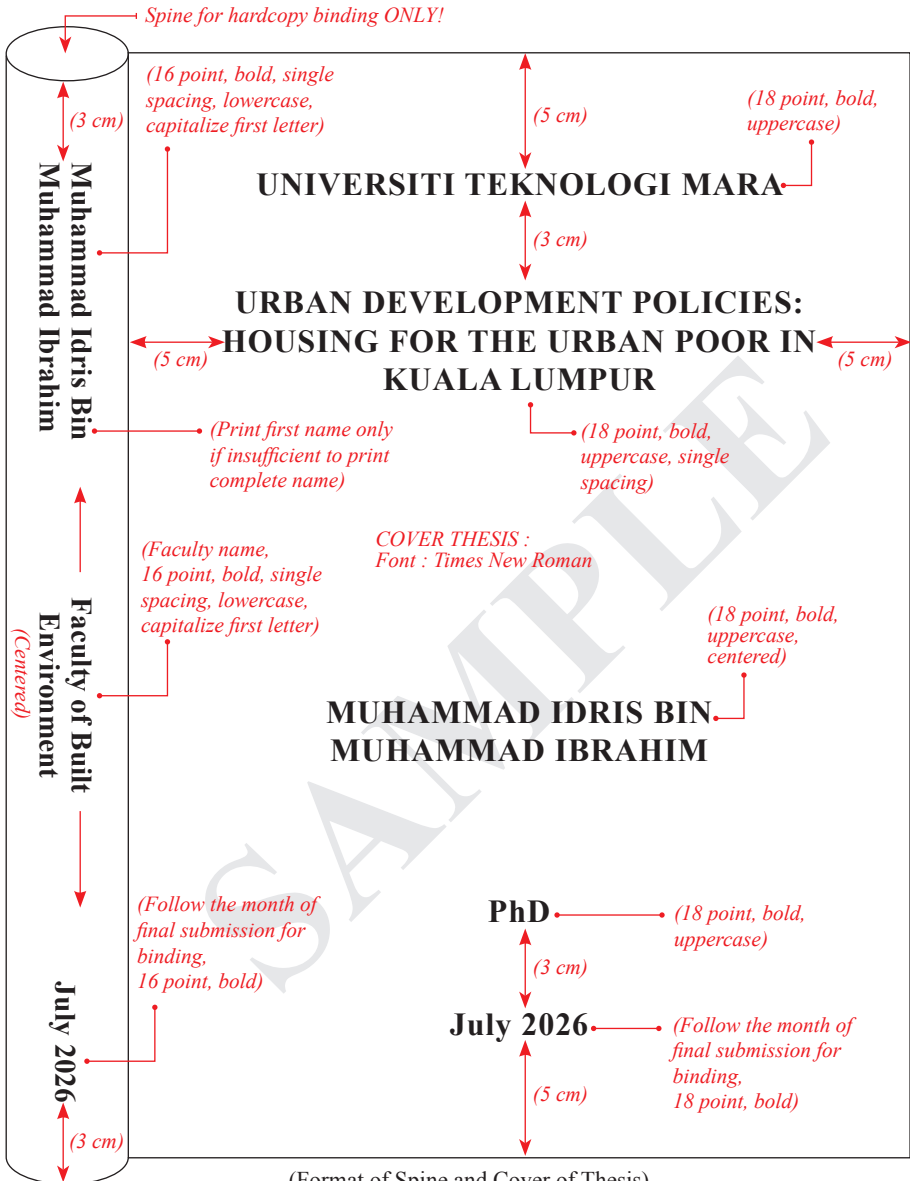
<b>No</b>	<b>Faculties</b>	<b>Degree Acronym</b>
1	Academy of Contemporary Islamic Studies (ACIS)	MA
2	Academy of Language Studies (APB)	MA
3	Accounting Research Institute (ARI)	MSc
4	Arshad Ayub Graduate Business School (AAGBS)	DBA
5	Faculty of Accountancy	MSc
6	Faculty of Administrative Science and Policy	MAS
7	Faculty of Applied Sciences	MSc
8	Faculty of Art and Design	MA
9	Faculty of Built Environment	MSc
10	Faculty of Business and Management	MSc
11	Faculty of Chemical Engineering	MSc
12	Faculty of Civil Engineering	MSc
13	Faculty of Communication and Media Studies	MA
14	Faculty of Computer and Mathematical Sciences	MSc
15	Faculty of Dentistry	MSc
16	Faculty of Education	MSc/MEd
17	Faculty of Electrical Engineering	MSc
18	Faculty of Film, Theatre and Animation	MA
19	Faculty of Health Sciences	MSc
20	Faculty of Hotel and Tourism Management	MSc
21	Faculty of Information Science	MSc
22	Faculty of Law	LL.M
23	Faculty of Mechanical Engineering	MSc
24	Faculty of Medicine	MSc
25	Faculty of Music	MA
26	Faculty of Pharmacy	MSc
27	Faculty of Plantation and Agrotechnology	MSc
28	Faculty of Sports Science and Recreation	MSc
29	Malaysia Institute of Transport (MITRANS)	MSc

**APPENDIX C: FORMAT OF SPINE AND COVER OF THESIS**  
**C1: MASTER BY RESEARCH / MIXED MODE**

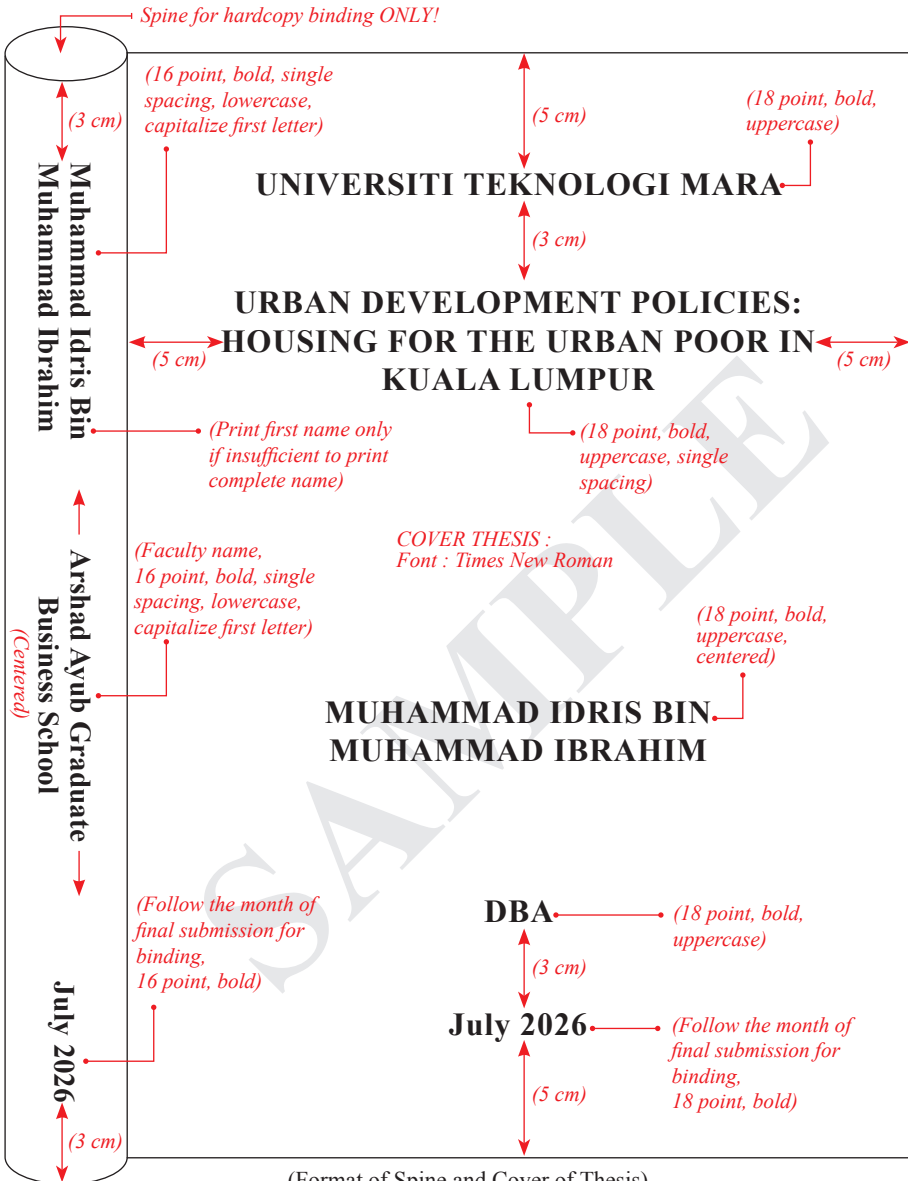


(Format of Spine and Cover of Thesis)

**APPENDIX C: FORMAT OF SPINE AND COVER OF THESIS  
C2: DOCTORAL BY RESEARCH / MIXED MODE**



**APPENDIX C: FORMAT OF SPINE AND COVER OF THESIS  
C3: DOCTORAL BUSINESS ADMINISTRATION**

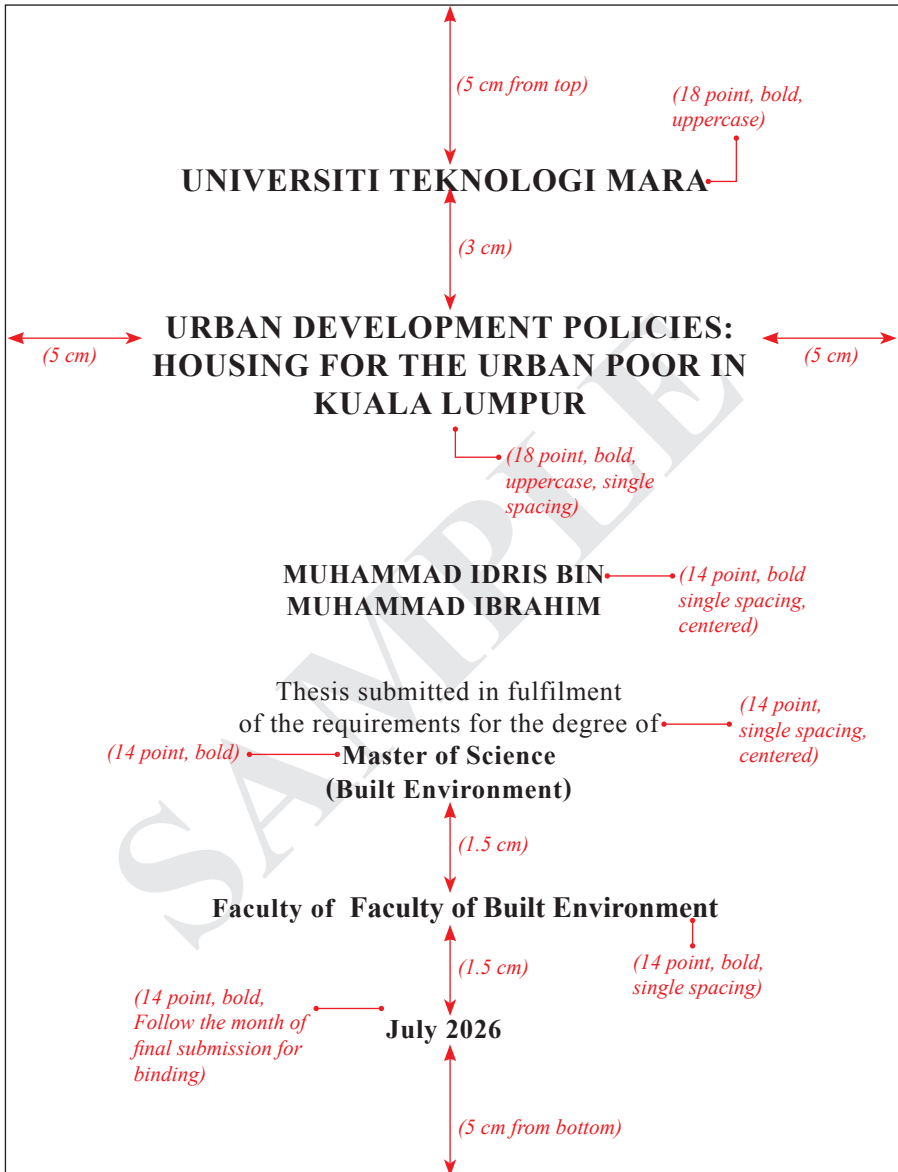


(Format of Spine and Cover of Thesis)

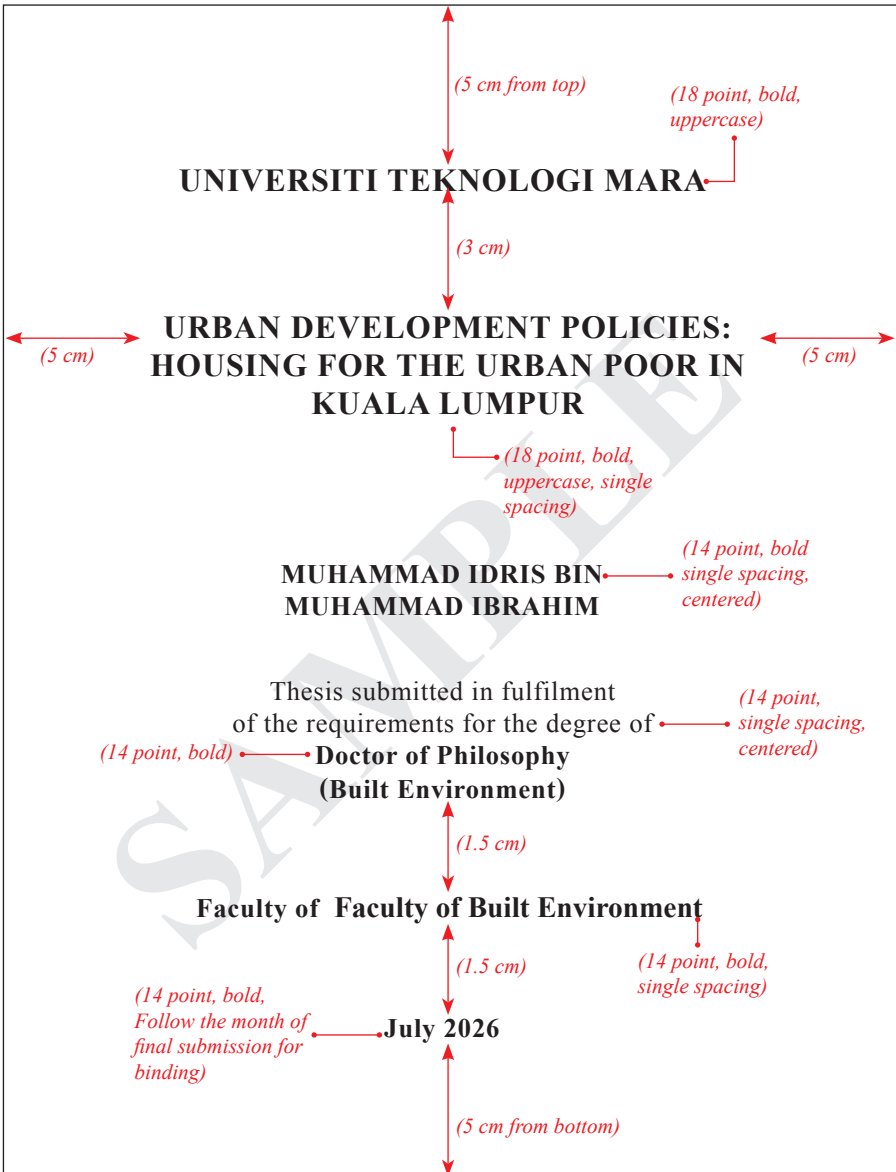
SAMPLE

Page 2 (Blank Page)

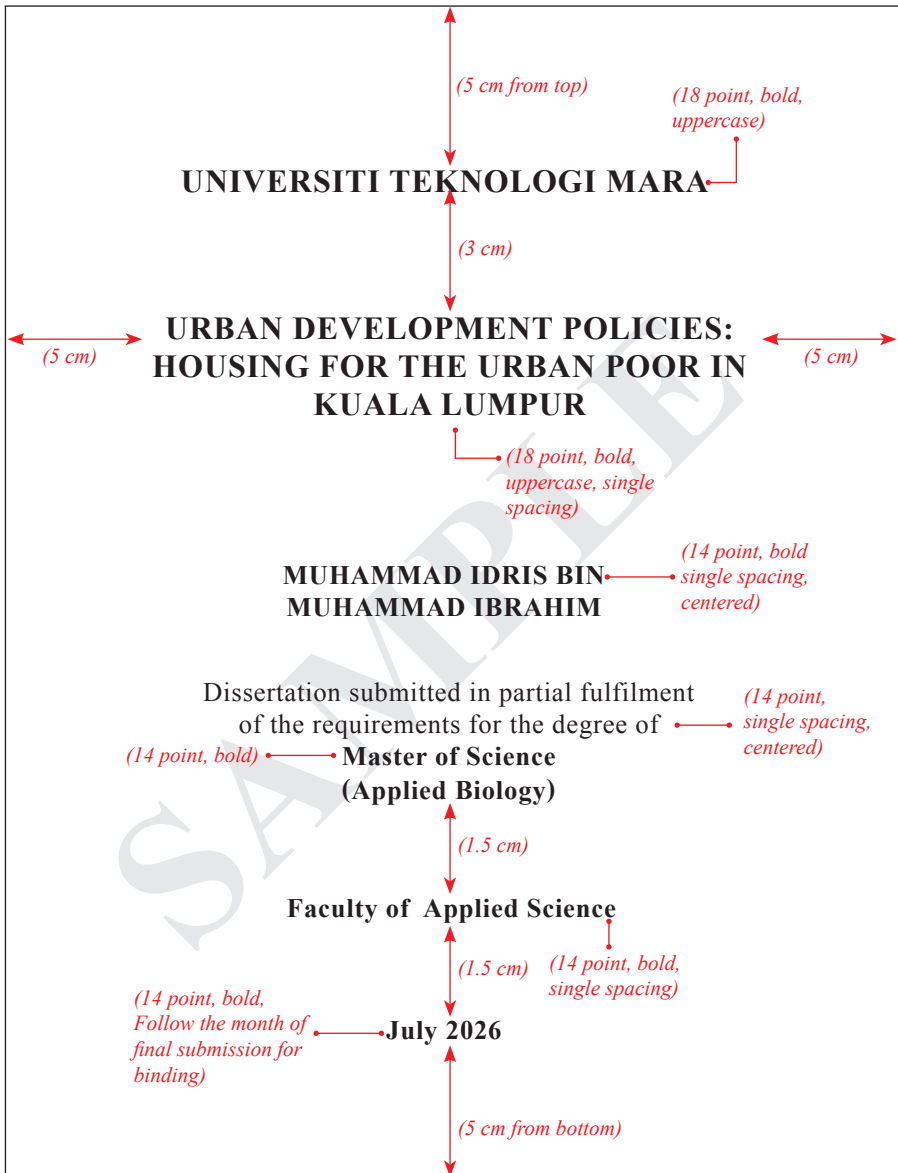
**APPENDIX D: FORMAT OF A TITLE PAGE FOR A THESIS  
D1: MASTER BY RESEARCH**



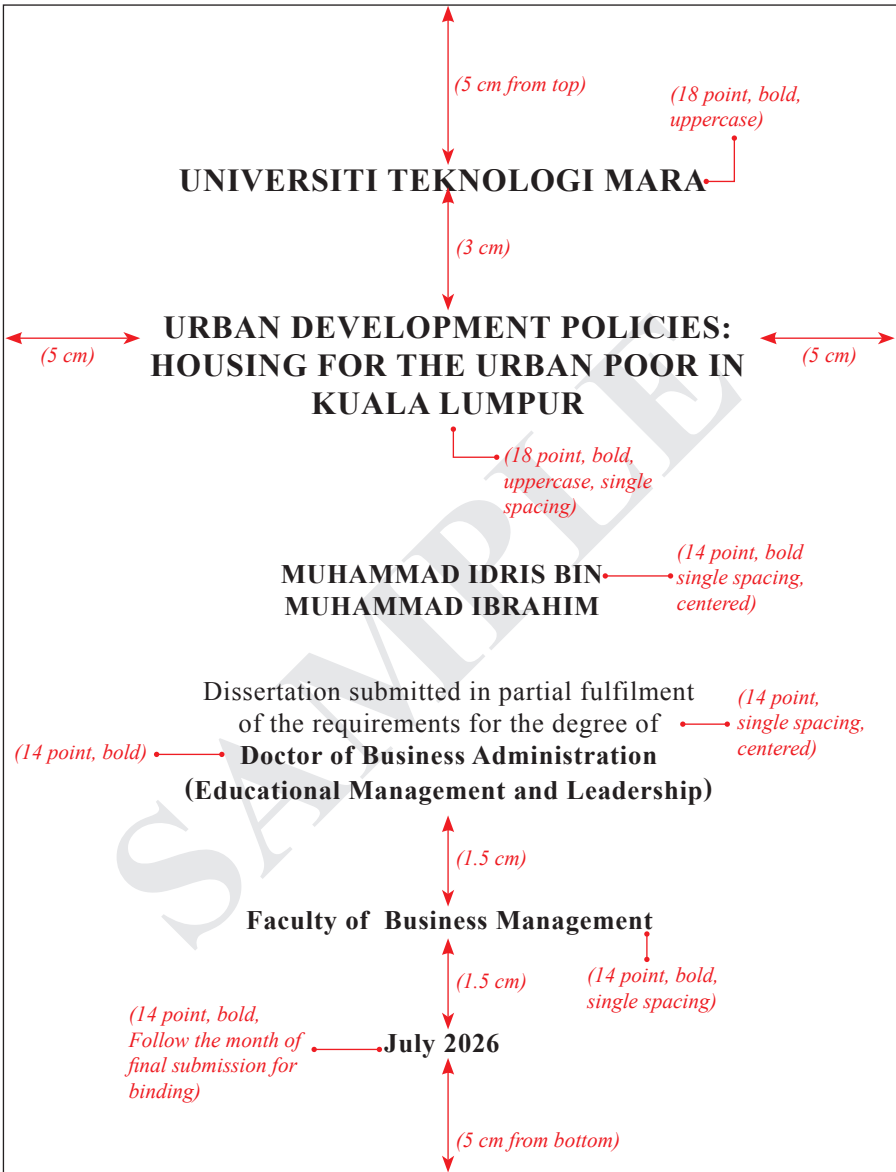
**APPENDIX D: FORMAT OF A TITLE PAGE FOR A THESIS  
D2: DOCTORAL BY RESEARCH**



**APPENDIX D: FORMAT OF A TITLE PAGE FOR A THESIS  
D3: MASTER'S BY MIXED-MODE**



**APPENDIX D: FORMAT OF A TITLE PAGE FOR A THESIS  
D4: DOCTORAL BY MIXED-MODE**



**APPENDIX E: CONFIRMATION BY PANEL OF EXAMINERS**  
**E1: MASTER'S PROGRAMME**

(2.5 cm from top)

(14 point, bold, uppercase)

**CONFIRMATION BY PANEL OF EXAMINERS**

(2 cm)

(date of viva)

I certify that a Panel of Examiners has met on 15<sup>th</sup> June 2026 to conduct the final examination of Muhammad Idris Bin Ibrahim on his Master of Science thesis entitled "Urban development Policies : Housing for The urban poor In Kuala Lumpur" in accordance with Universiti Teknologi MARA Act 1976 (Akta 173). The Panel of Examiners recommends that the student be awarded the relevant degree. The Panel of Examiners was

(3.8 cm) as follows:

(2 cm)

Ahmad Hamdan Abdullah, PhD (capitalize each word)  
Professor  
Faculty of Architecture, Planning and Surveying  
Universiti Teknologi MARA  
(Chairman)

(1 cm)

Siti Norulaini Safuan (capitalize each word)  
Associate Professor  
Faculty of Architecture, Planning and Surveying  
Universiti Teknologi MARA  
(Internal Examiner)

(1 cm)

Mohd Adri Izzat Hamdan (capitalize each word)  
Associate Professor  
Faculty of Architecture, Planning and Surveying  
Universiti  
(External Examiner)

(2 cm)

(bold)

(dean of IPSis) **PROF DR HJH ZURAEDA  
BINTI IBRAHIM**  
Dean  
Institute of Postgraduates Studies  
Universiti Teknologi MARA  
Date : 19 October 2026

(binding letter issued date)

(2.5 cm)

(12 point, font Times New Roman, 1.0 spacing)

**APPENDIX E: CONFIRMATION BY PANEL OF EXAMINERS  
E2: DOCTORAL PROGRAMME**

**CONFIRMATION BY PANEL OF EXAMINERS** *(14 point, bold, uppercase)*

*(2.5 cm from top)*

*(2 cm)*

*(date of viva)*

I certify that a Panel of Examiners has met on 15<sup>th</sup> June 2026 to conduct the final examination of Muhammad Idris Bin Ibrahim on his Doctor of Philosophy thesis entitled “Urban development Policies : Housing for The urban poor In Kuala Lumpur” in accordance with Universiti Teknologi MARA Act 1976 (Akta 173). The Panel of Examiners *(3.8 cm)* recommends that the student be awarded the relevant degree. The Panel of Examiners was as follows: *(2.5 cm)*

*(2 cm)*

Ahmad Hamdan Abdullah, PhD *(capitalize each word)*  
Professor  
Faculty of Architecture, Planning and Surveying  
Universiti Teknologi MARA  
(Chairman)

*(1 cm)*

Siti Norulaini Safuan *(capitalize each word)*  
Associate Professor  
Faculty of Architecture, Planning and Surveying  
Universiti Teknologi MARA  
(Internal Examiner)

*(1 cm)*

Sharifah Fatimadini Agil, PhD *(capitalize each word)*  
Associate Professor  
Faculty of Architecture, Planning and Surveying  
Universiti Malaya  
(External Examiner)

*(12 point, font Times New Roman, 1.0 spacing)*

*Continue with two columns if panel of examiners are more than three. Refer to APPENDIX E3.*

*(2 cm)*

*(bold)*

*(dean of IPSis)* **PROF DR HJH ZURAEDA BINTI IBRAHIM**  
Dean  
Institute of Postgraduates Studies  
Universiti Teknologi MARA

*(binding letter issued date)* → Date : 19 October 2026

ii

APPENDIX E: CONFIRMATION BY PANEL OF EXAMINERS

E3: DOCTORAL PROGRAMME (with more than two examiners)

(2.5 cm from top)

(14 point, bold, uppercase)

## CONFIRMATION BY PANEL OF EXAMINERS

(2 cm)

(date of viva)

I certify that a Panel of Examiners has met on 15<sup>th</sup> June 2026 to conduct the final examination of Muhammad Idris Bin Ibrahim on his Doctor of Philosophy thesis entitled “Urban development Policies : Housing for The urban poor In Kuala Lumpur” in accordance with Universiti Teknologi MARA Act 1976 (Akta 173). The Panel of Examiners

(3.8 cm) recommends that the student be awarded the relevant degree. The Panel of Examiners was (2.5 cm) as follows:

(2 cm)

<p>Ahmad Hamdan Abdullah, PhD Professor Faculty of Architecture, Planning &amp; Surveying Universiti Teknologi MARA (Chairman)</p> <p style="text-align: center;">(1 cm)</p> <p>Siti Norulaini Safuan Associate Professor Faculty of Architecture, Planning &amp; Surveying Universiti Teknologi MARA (Internal Examiner)</p> <p style="text-align: center;">(1 cm)</p> <p>Sharifah Fatimadini Agil, PhD Associate Professor Faculty of Architecture, Planning &amp; Surveying Universiti Malaya (Internal Examiner)</p>	<p>Tan How Meng, PhD Professor Faculty of Architecture University of ABC (External Examiner)</p> <p>Christopher Columbus, PhD Professor Faculty of Architecture University of XYZ (External Examiner)</p> <p>Steve Jaffers, PhD Professor Faculty of Architecture University of KLM (External Examiner)</p>
--	---

(2 cm)

(dean of IGS) **PROF DR HJH ZURAEDA BINTI IBRAHIM** (bold)

Dean  
Institute of Postgraduates Studies  
Universiti Teknologi MARA

(binding letter issued date) → Date : 19 October 2026

ii

APPENDIX E: CONFIRMATION BY PANEL OF EXAMINERS

E4: DOCTORAL BUSINESS ADMINISTRATION PROGRAMME

(2.5 cm from top)

(14 point, bold, uppercase)

## CONFIRMATION BY PANEL OF EXAMINERS

(2 cm)

(date of viva)

I certify that a Panel of Examiners has met on 15<sup>th</sup> June 2026 to conduct the final examination of Muhammad Idris Bin Ibrahim on his Doctor of Business Administration dissertation entitled “Urban development Policies : Housing for The urban poor In Kuala Lumpur” in accordance with Universiti Teknologi MARA Act 1976 (Akta 173). The Panel of Examiners recommends that the student be awarded the relevant degree. The Panel of Examiners was as follows:

(3.8 cm)

(2.5 cm)

(2 cm)

Ahmad Hamdan Abdullah, PhD (capitalize each word)  
Professor  
Faculty of Business and Management  
Universiti Teknologi MARA  
(Chairman)

(1 cm)

Siti Norulaini Safuan (capitalize each word)  
Associate Professor  
Faculty of Business and Management  
Universiti Teknologi MARA  
(Internal Examiner)

(1 cm)

Sharifah Fatimadini Agil, PhD (capitalize each word)  
Associate Professor  
Faculty of Business and Management  
Universiti Malaya  
(External Examiner)

(12 point, font Times New Roman, 1.0 spacing)

Continue with two columns if panel of examiners are more than three. Refer to APPENDIX E3.

(2 cm)

(bold)

(dean of IGS) **PROF DR HJH ZURAEDA BINTI IBRAHIM**  
Dean  
Institute of Postgraduates Studies  
Universiti Teknologi MARA  
Date : 19 October 2026

(binding letter issued date)

ii

**APPENDIX F: AUTHOR'S DECLARATION**

**F1: RESEARCH PROGRAMME**

*(2.5 cm from top)*

**AUTHOR'S DECLARATION** *(14 point, bold, uppercase)*

*(2 cm)*

I declare that the work in this thesis was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or non-academic institution for any degree or qualification. *(3.8 cm)*

*(1 cm)*

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Postgraduate, Universiti Teknologi MARA, regulating the conduct of my study and research. *(2 cm)*

Name of Student : Muhammad Idris Bin Ibrahim  
Student I.D. No. : 2008123456  
Programme : Master of Science (Integrated Construction Project Management) - AP780  
Faculty : Architecture, Planning & Surveying  
Thesis Title : Urban Development Policies: Housing for the Urban Poor

Signature of Student : .....  
Date : July 2026 *(Month of final submission for binding)*

*(12 point, font Times New Roman, 1.5 spacing)*

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**APPENDIX F: AUTHOR'S DECLARATION**  
**F2: MIXED-MODE PROGRAMME**

*(2.5 cm from top)*

*(14 point, bold, uppercase)*

**AUTHOR'S DECLARATION**

*(2 cm)*

I declare that the work in this dissertation was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

*(3.8 cm)* *(2.5 cm)*

*(1 cm)*

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Postgraduate, Universiti Teknologi MARA, regulating the conduct of my study and research.

*(2 cm)*

Name of Student : Muhammad Idris Bin Ibrahim  
Student I.D. No. : 2008123456  
Programme : Master of Science (Integrated Construction Project Management) - AP780  
Faculty : Architecture, Planning & Surveying  
Dissertation Title : Urban Development Policies: Housing for the Urban Poor

Signature of Student : .....  
Date : July 2026

*(12 point, font Times New Roman, 1.5 spacing)*

*(Month of final submission for binding)*

iii

**APPENDIX G: SAMPLE FOR ABSTRACT**

**ABSTRACT**

The lack of management data and not knowing what level of park quality local authorities are trying to deliver is becoming a growing concern. The problem of urban landscape cannot be solved simply by providing more parks and spending more money on development and management. There is an urgent need for innovation, for better understanding of the current and potential role of the park to meet the needs in modern urban life. Thus, the adoption of a strategic approach is needed to planning and managing that urban landscape to carry out its function and roles. This research aim is to study the factors of park attributes that influence the development, planning and management of successful urban park in Kuala Muda. It specifically studies on Taman Tasik Cini as the sole representative of urban park in the context of Kuala Muda Structure Plan 2020. This research is based on data obtained from a survey questionnaire that polled public attitudes regarding the factors of park attributes based on visitor's perception and Haris's(2008), park success factors. The data was analyzed to evaluate and determine the park attributes and its level of preferences that influence the strategic approach to the planning and management of successful urban park. The research suggested that successful urban park as are linked to the physical and functional qualities of the park; security and comfort; visitors' preferences and needs of the place. The results of the study also suggested that a holistic strategic approach is needed for the local authority to successfully managing the urban park. It is hope that the study can contribute to the improvement of urban park planning and management in Kuala Muda.

*Note:*

- *Master - minimum 200 words*
- *PhD - minimum 250 words*
- *Limit to one (1) page only*
- *No Paragraph*
- *Font: Times New Roman - 12*
- *Thesis written in Malay is required to include abstract in both Malay and English.*

APPENDIX H: SAMPLE FOR ACKNOWLEDGEMENT

*(2.5 cm from top)*

**ACKNOWLEDGEMENT** *(14 point, bold, uppercase)*

*(2 cm)*

Firstly, I wish to thank God for giving me the opportunity to embark on my PhD and for completing this long and challenging journey successfully. My gratitude and thanks go to my supervisor Assoc. Prof. Dr. Zaini Hamzah, and co-supervisor, Assoc. Prof. Dr. Ahmad Saat. Thank you for the support, patience and ideas in assisting me with this project. I also would like to express my gratitude to the staff of the Malaysian Nuclear Agency, especially Dr. Zaharudin Ahmad, Dr. Abdul Kadir Ishak and Mr. Zulkifli Daud for providing the facilities, knowledge and assistance. *(3.8 cm)*

My appreciation goes to the Captain and crew members of the KL PAUS who provided the facilities and assistance during sampling. Special thanks to my colleagues and friends for helping me with this project. *(2.5 cm)*

Finally, this thesis is dedicated to the loving memory of my very dear late father and mother for the vision and determination to educate me. This piece of victory is dedicated to both of you. Alhamdulillah. *(12 point, font Times New Roman, single spacing)*

*Note:*

- *Must include all supervisors names*
- *Limit to one (1) page only*
- *Font: Times New Roman - 12*

v

**APPENDIX I: SAMPLE FOR TABLE OF CONTENTS**

<p>(2.5 cm from top)</p> <p><b>TABLE OF CONTENTS</b> (14 point, bold, uppercase)</p> <p>(2 cm)</p>		
	<p>CONFIRMATION BY PANEL OF EXAMINERS</p> <p>AUTHOR'S DECLARATION</p> <p><b>ABSTRACT</b> (3.8 cm)</p> <p>ACKNOWLEDGEMENT</p> <p>TABLE OF CONTENTS</p> <p>LIST OF TABLES</p> <p>LIST OF FIGURES</p> <p>LIST OF PLATES</p> <p>LIST OF SYMBOLS</p> <p>LIST OF ABBREVIATIONS</p> <p>LIST OF NOMENCLATURES</p>	<p>Page</p> <p>ii</p> <p>iii</p> <p>iv (2.5 cm)</p> <p>v</p> <p>vi</p> <p>viii (12 point, bold, uppercase)</p> <p>ix</p> <p>x</p> <p>xi</p> <p>xii</p> <p>xiii</p>
	<p>(2 cm)</p> <p><b>CHAPTER 1: INTRODUCTION</b> (12 point, bold, uppercase)</p> <p>1.1 Preamble</p> <p>1.2 East Coast Peninsula Malaysia Exclusive Economic Zone (EEZ)</p> <p>1.3 Problem Statement</p> <p>1.4 Objectives</p> <p>1.5 Significance of Study</p>	<p>1</p> <p>1</p> <p>2</p> <p>3</p> <p>4 (title case/ capitalize each word)</p> <p>5</p>
	<p>(1 cm)</p> <p><b>CHAPTER 2: LITERATURE REVIEW</b></p> <p>2.1 Preamble</p> <p>2.2 Previous Study on Radionuclides Dating Technique</p> <p>2.3 Radionuclides Studies in Malaysia</p>	<p>6</p> <p>6</p> <p>7</p> <p>8</p>
	<p><b>CHAPTER 3: RESEARCH METHODOLOGY</b></p> <p>3.1 Study Area</p> <p>3.2 Sampling</p>	<p>9</p> <p>9</p> <p>10</p>
<p>vi</p>		

	↑ (2.5 cm from top) ↓	
<b>CHAPTER 4: RESULTS AND DISCUSSIONS</b>		<b>13</b>
4.1 Background of Study		13
4.1.1 Comparison Of Pb-210 Activity Concentration In Surface Sediments With Other Studies		14
4.1.1.1 Station SF13 40	← (Max of Three Level of Heading)	15
	↑ (1 cm) ↓	
<b>CHAPTER 5: CONCLUSION AND RECOMMENDATIONS</b>		<b>16</b>
<b>REFERENCES</b>		<b>17</b>
<b>APPENDICES</b>		<b>18</b>
<b>AUTHOR'S PROFILE</b>		<b>19</b>

*(3.8 cm)* ←

*(12 point, bold, uppercase)*

*(title case/ capitalize each word)*

*(2.5 cm)* ←

*Note:*

- *Chapter contents and headings may differ according to faculty's requirement*
- *1.5 spacing*
- *Maximum of third level subheading*

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**APPENDIX J: SAMPLE FOR LIST OF TABLES**

**LIST OF TABLES**

(2.5 cm from top)  
(14 point, bold, uppercase)

(2 cm)

<b>Tables</b>	<b>Title</b>	<b>Page</b>
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Table 3.2	Continuum Zones Assignment	32
Table 3.3	Boundary Zones Assignment	32
Table 3.4	MEA Parameters of Reference Fuel Cell	33
Table 3.5	Operating Condition Setup for Parameter Validation Analysis	35
Table 3.6	Cathode Flow Channel Design Selection	36
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Table 3.8	Operating Conditions Setup for Grid Independence Study Analysis	40
Table 3.9	Operating Condition Setup for Transparent Fuel Cell CFD Analysis	41
Table 5.1	Current Collector Flow Channel and Machining Parameters	51

*(3.8 cm)*

*(2.5 cm)*

*(title case/ capitalize each word)*

**Note:**

- *Line spacing 1.5*
- *Left justify*
- *Capitalize each word*

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**APPENDIX K: SAMPLE FOR LIST OF FIGURES**

*(2.5 cm from top)*

**LIST OF FIGURES** *(14 point, bold, uppercase)*

*(2 cm)*

<b>Figures</b>	<b>Title</b>	<b>Page</b>
Figure 2.1	A Parallel-Plate Capacitor (A) When a Vacuum is Present and (B) When a Dielectric Material is Present	9
<i>(3.8 cm)</i> Figure 2.2	Electronic Polarization. (A) Unpolarized Atom and (B) Atom Polarized as a Result of The Electric Field	<i>(2.5 cm)</i> 10
Figure 2.3	Ionic Polarization. (A) Unpolarized Ion (B) Ion Polarized as the Electric Field is Applied	11
Figure 2.4	Dipolar/ Orientation Polarization. (A) Unpolarized Dipoles (B) Dipoles Polarized as the Electric Field is Applied	12
Figure 2.5	Interfacial/Space Charge Polarization. (A) Unpolarized Charges (B) Charges Polarized When Electric Field is Applied	12
Figure 2.6	Different Polarization Mechanisms to the Frequency Dependence of the Relative Permittivity	13
Figure 2.7	Several Types of Capacitor	15
Figure 2.8	The Cubic Perovskite Structure	16
Figure 2.9	A Schematic Unit Cell of Body-Centered Cubic of CCTO	17
Figure 2.10	Dielectric Constant and Dielectric Loss of CCTO with Temperature	18

*(title case/ capitalize each word)*

**Note:**

- *Line spacing 1.5*
- *Left justify*
- *Capitalize each word*

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**APPENDIX L: SAMPLE FOR LIST OF PLATES**

*(2.5 cm from top)*

**LIST OF PLATES** *(14 point, bold, uppercase)*

*(2 cm)*

*(3.8 cm)* **Plates**

<b>Plates</b>	<b>Title</b>	<b>Page</b>
Plate 4.1	The Building of Energy Research Laboratory, Block G, UiTM Shah Alam	31
Plate 4.2	The Interior Space of the Full-Scale Test Cell	32
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Plate 4.4	LASTEM Luxmeter	37
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Plate 4.6	DEWETRON Data Acquisition System	37
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Plate 4.9	Measurement of Internal and External Illuminance under the Hot Sun	39
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Plate 4.12	The Rotor of the Turbine Ventilator	57
Plate 4.13	The Prototype as Viewed from the Outside of the Test Room	58

*(2.5 cm)*

*(title case/ capitalize each word)*

**Note:**

- *Line spacing 1.5*
- *Left justify*
- *Capitalize each word*

x

**APPENDIX M: SAMPLE FOR LIST OF SYMBOLS**

(2.5 cm from top)

**LIST OF SYMBOLS** (14 point, bold, uppercase)

(2 cm)

<b>Symbols</b>	
(3.8 cm)	
c	Speed of light
f	Frequency
k	Wave vector
kc	Cutoff wavenumbers
log	Logarithm
n	Refractive index
n( $\omega$ )	Refractive index of step-index fiber
NA	Numerical aperture
$\beta$	Longitudinal wavevector
T	Temperature
v	Velocity
$\gamma$	Attenuation coefficient
$\kappa$	Transverse wavevector
$\lambda$	Wavelength
$\omega$	Frequency
$\omega_c$	Cutoff frequency

*Note:*

- Sort symbols according to alphabetical order
- Line spacing 1.5
- Left justify
- Capitalize each word

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**APPENDIX N: SAMPLE FOR LIST OF ABBREVIATIONS**

*(2.5 cm from top)*

**LIST OF ABBREVIATIONS** *(14 point, bold, uppercase)*

*(2 cm)*

*(3.8 cm)* **Abbreviations**

PPP	Public Private Partnership
PSC	Public Sector Comparator
VFM	Value for Money
EPU	Economic Planning Unit
LCC	Life cycle cost
UKAS	Unit Kerjasama Awam swasta
CIDB	Construction Industry Development Board
MOHE	Ministry of Higher Education
MOF	Ministry of Finance
UiTM	Universiti Teknologi MARA
CSF	Critical Success factors
EPF	Employee Provident Fund
PFI	Private Finance Initiative
UK	United Kingdom
BOT	Build Operate Transfer
SPSS	Statistical Package for Social Sciences

*Note:*

- *Sort abbreviations according to alphabetical order*
- *Line spacing 1.5*
- *Left justify*
- *Capitalize each word*

xii

**APPENDIX O: SAMPLE FOR LIST OF NOMENCLATURES**

*(2.5 cm from top)*

**LIST OF NOMENCLATURES** *(14 point, bold, uppercase)*

*(2 cm)*

*(3.8 cm)* **Nomenclatures**

A/D	Alternate to Direct
CCD	Couple Charged Device
CMOS	Complementary Metal Oxide Semiconductor
CRT	Cathode Ray Tube
IC	Integrated Circuit
LED	Light Emitted Device
PCB	Printed Circuit Board
PCI	Personal Computer Interface
PDMS-nano	Nano Polydimethylsiloxane
PVDF	Polyvinylidene Fluoride
SD	Slip Differential
SI	International System
SR	Stochastic Resonance
SMB	Serial Mini Bus
TIR	Total Internal Reflection
VLSI	Very Large Scale Integration

*Note:*

- *Sort nomenclatures according to alphabetical order*
- *Line spacing 1.5*
- *Left justify*
- *Capitalize each word*

xiii

**APPENDIX P: BODY OF THESIS/DISSERTATION**

**CHAPTER 1**

**INTRODUCTION**

*(Numbering start at 1.1 and not 1.0)*

**1.1 Research Background**

*(Indent first line for each paragraph -0.5")*

*(Chapter Heading, centre, 14 point, bold, uppercase, 1.5 spacing)*

*(2.5 cm from top)*

*(2 cm)*

*(Main Heading, flushed left, 12 point, bold, title case / capitalize each words)*

*(1 cm)*

The emergence of industrial separation processes based on membrane gas separation, pervaporation and vapor permeation has widened the scope of membrane applications considerably. Membrane separation techniques are now beginning to play an increasingly important role in many aspects of bioprocessing. Membrane systems offer high performance such as high surface area per unit volume, permselectivity and potential for controlling the level of contact and mixing between separate phases (Charcosset, 2001). Because of these properties, membrane systems are exploited for both upstream and downstream processing in biotechnology.

The bioreactors which fit this description best are membrane bioreactors (Robinson, 2007). Membrane bioreactors are devices in which enzymes, organelles, microbial, animal and plant cells are retained by means of membranes for the production of valuable materials, for processes such as wastewater treatment and for analysis as biosensors. Membrane bioreactors using biocatalyst can be used in production, processing and treatment operations. The distinguishes of this membrane bioreactor from other types is the in-situ separation of products from biocatalyst. Additional benefits they offer are to increase cell concentration, able to function at moderate temperature and pressure and reduce the formation of by- products.

*(3.8 cm)*      *(2.5 cm)*

*Notes:*

- *The first line of all paragraphs should be indented one tab key from the left-hand margin.*
- *The main body text should be left aligned or justified.*
- *In the main body, use 1.5-line spacing.*
- *Leave one line space before a heading.*
- *Do not leave a line between paragraphs Times New Roman typeface should be used.*

1

**APPENDIX P: BODY OF THESIS/DISSERTATION (LANDSCAPE FORMAT)**

(3.8 cm from top)

Table 1  
Characteristics of Four SSR Loci and Three EST-SSR Loci Developed for *Shorea leprosula*

(2.5 cm)

Loci	Accession No.	Primer Sequence (5' - 3')	Repeat	Allele Size Range (bp)	Annealing Temp. (°C)
Sle280	AJ616880	F: GCAACTAAAATGGACCAGA R: GAGTAAGGTGGCAGATATAGAG	(CT)7	107 - 137	52
Sle 392	AJ616886	F: ATGTCCTTGAAGATGTAAGTGGGTG R: AATAATGGAAGTGAGACGAGGCTG	(GA)11	161 - 231	55
Sle 475	AJ616888	F: AGCGAAACCCTTGTGGAGA R: GAGACTACGGTGCCGACGA	(GA)10	129 - 139	50
Sle 566	AJ616890	F: TGAGTAACAAGTAATGAGGG R: GCAGAGATTGAAACAGAAG	(GA)13	59 - 104	52
SleE02	DC649188	F: GGAGGAGAGAAACGAAG R: GTTTGAGGTAGTGAATAACGAGC	(AGC)9	142 - 160	45
SleE07	DC649404	F: AGAAGAATATGGGTACGACTG R: GTTTGAATCAACTGGCACCTCTAT	(GAA)7	175 - 190	45
SleE16	DC651058	F: TCGTCAACCTCCGTAGTCC R: GTTTGCGCAATAAATAGAGCAATCA	(CT)12	184 - 192	45

(2.5 cm)

2

**2.1.2 Lagrange Multiplier (LM) Test**

*(Sub-Heading, flushed left, 12 point, bold, title case/capitalize each word)*

The Lagrange Multiplier test (LM) is also called the Autocorrelation Test. In time series analysis, one assumption is that the white noise must be uncorrelated. The LM test is commonly used to assess autocorrelation properties of data series.

*(Indent first line for each paragraph -0.5")*

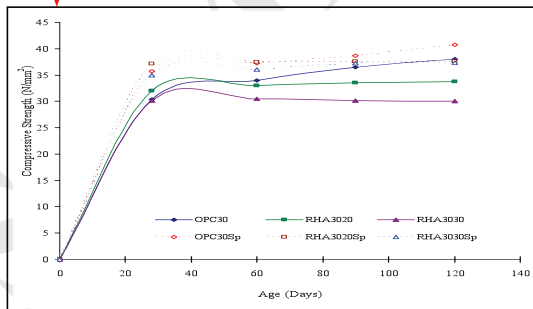
**2.1.2.1 Blood Agar**

*(Sub Sub-Heading, italic, flushed left, 12 point, bold, title case / capitalize each word)*

Bacto base agar powder (Oxoid) was suspended in 1L of deionized water. The agar suspension was dissolved in a microwave oven for 6 minutes until a clear suspension was obtained. Then it was sterilized by autoclaving at 121°C for 15 minutes. After sterilization, the agar suspension was cooled until 45°C to 50°C in water bath. Then, 5% sterile defibrinated blood was added into agar and mixed. The agar suspension was poured into sterile Petri dishes. To ensure contamination-free agar plates were obtained, the Petri dishes were left for three days before used.

**4.3 Compressive Strength of Rice Husk Ash**

*(Capitalize each word)*



*(Figure must be in closed box)*

*(title case / capitalize each word)*

**Figure 4.1 Compressive Strength of Rice Husk Ash (RHA) Concrete of Grade 30**

Notes/Sources : Influence of the physical chemistry properties of an acid activated bentonite in the bleaching of olive oil. (Pradas et.al., 1993, p. 23)

*(Font size 12, single spacing, no spacing between box and caption, centered)*

*(Font size 12, single spacing, no spacing between box and caption, title case / capitalize each word)*

*(2.5 cm from top)*

Table 4.1  
Surface Area and Porosity of Bleaching Soil

Chemical C Composition	Surface Area (m <sup>2</sup> g <sup>-1</sup> )	Porosity (cm <sup>3</sup> g <sup>-1</sup> )
Neutral clay	0.68	0.68
Bleaching clay (0.5 M H <sub>2</sub> SO <sub>4</sub> )	0.80	0.80
Bleaching clay (1.0 M H <sub>2</sub> SO <sub>4</sub> )	0.80	0.80

*All table hide left and right line  
(font size: minimum 9)*

Note: Influence of the physical chemistry properties of an acid activated bentonite in the bleaching of olive oil. (Pradas et.al., 1993, p. 23)

*(Note/Source: left justified, minimum 9)*

*(1 cm)*



Plate 4.1 The view of the Tuanku Syed Sirajuddin Building, UiTM from the Dataran Tengku Fauziah

*(Font size 12, single spacing, no spacing between box and caption, centered)*

Equation (4.1) describes the output voltage of the rectifier. By equating (4.1) and (4.4), it yields...

$V_o = IR$	(4.1)
------------	-------

*(centered)*

*(Font size 12, right flushed)*

**NOTE:**

- use "insert table" with 2 columns 1 row in MS Word
- Remove the table border (dashed line)

**APPENDIX Q: SAMPLE OF REFERENCES APA FORMAT**

**REFERENCES**

(2.5 cm from top)

(Left align, 14 point, bold, uppercase)

(1 cm)

(3.8 cm)

(2.5 cm)

(Font size 12, Times New Roman, and 1.5 spacing)  
Remove space between paragraph

(Hanging Indent  
Use a hanging indent for the entries longer than one line. Indent 1/2" from the set margins, after the first line of each entry.)

**NOTE:**  
• justify

Al Haddawi, M. H., Jasni, S., Son, R., Mutalib, A. R., Bahaman, A. R., Zamri-Saad, M., et al. (1999). Molecular characterization of *P. multocida* isolates from rabbits. *Journal of General and Applied Microbiology*, 45, pp. 269–275.

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Bienhoff, S. E., Allen, G. K., & Berg, J. N. (1992). Release of tumor necrosis factor alpha from bovine alveolar macrophages stimulated with ovine respiratory viruses and bacterial endotoxins. *Veterinary Immunology and immunopathology*, 30, 341–357.

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National Treasury South Africa (2004). Public Private Partnership manual: Pretoria, South Africa: National Treasury PPP unit.

Netto, A. (2006). Malaysia’s newfangled privatization fudge. EPU. (2006).

Nilufa. A. K (2010). Conceptual issues in Defining Public Private partnership (PPPs). *International review of Business Research papers*, 6(2), 150-163.

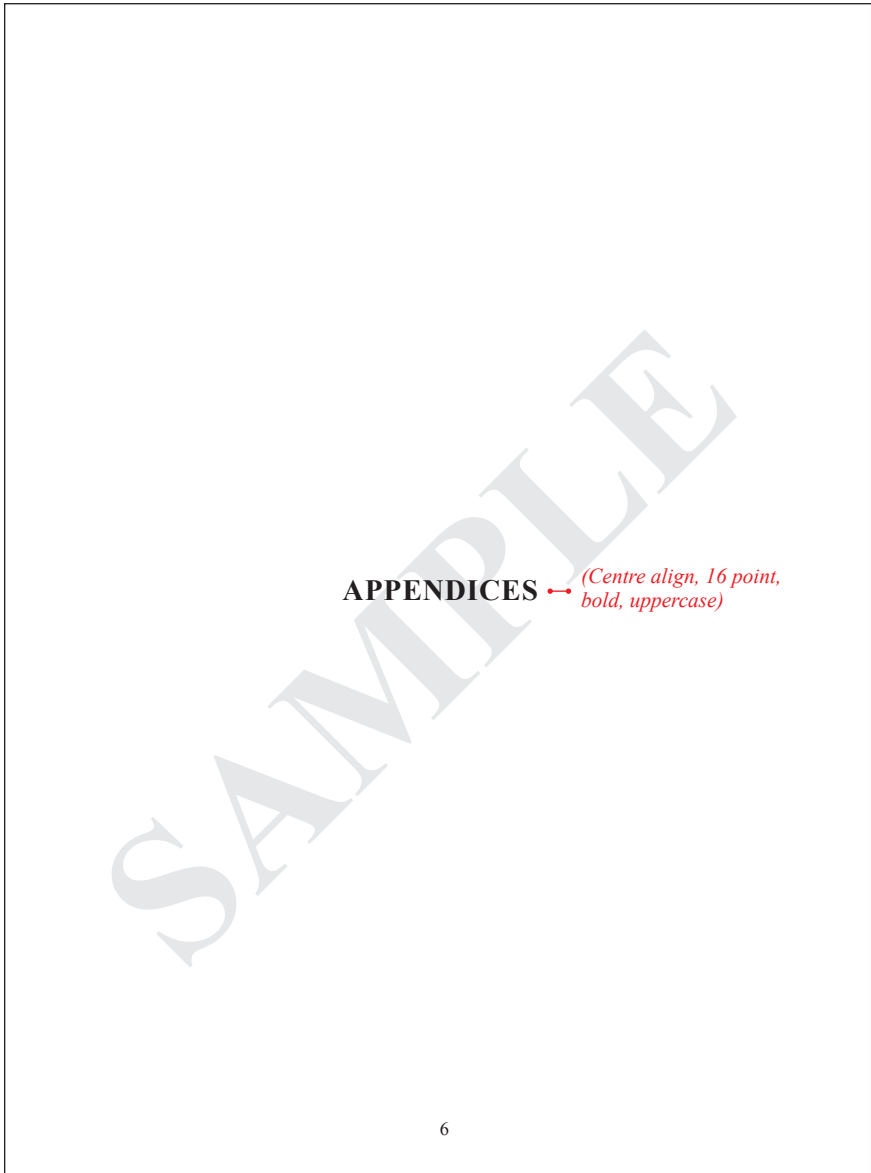
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Nisar, T.M. (2007). Value for money drivers in public private partnership schemes. *International Journal of Public Sector Management*, 20 (2), pp 147-156.

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Nunnally, I. (1978). *Psychometric theory*. New York: McGraw-Hill

**APPENDIX R: APPENDIX PAGE**



**APPENDICES** → *(Centre align, 16 point,  
bold, uppercase)*

(2.5 cm from top)

(Centre align,  
14 point, bold,  
uppercase)

## **APPENDIX A**

**Classification of *P. multocida* Isolates by Capsular Serotyping Methods** (Title case /  
capitalize each  
letter, bold,  
font 12, single  
spacing)


SAMPLE

**APPENDIX S: AUTHOR'S PROFILE**

*(2.5 cm from top)*

**AUTHOR'S PROFILE** *(Centre align, 14 point, bold, uppercase)*

*(2 cm)*



*(Photo)* *(size : 35 x 50 mm)*

Muhammad Idris bin Ibrahim completed his PhD in Computational Linguistics at the Faculty of Architecture, Planning and Surveying, Universiti Teknologi MARA. He received his MSc. in Quantity Surveying at the Faculty of Architecture, Planning and Surveying, Universiti Teknologi MARA. He was a research assistant for NSF funded project from 2003-2005. ....

*(font 12, spacing 1.5)*

**LIST OF PUBLICATIONS**

*NOTE:*

- Justify*

8

APPENDIX T: ARABIC THESIS  
T1: COVER THESIS

The diagram illustrates the layout of a thesis cover page. It features a central text block within a rectangular frame. The text is centered both horizontally and vertically. Four red double-headed arrows indicate margins of 5 cm: one at the top, one at the bottom, one on the left, and one on the right. The text is as follows:

UNIVERSITI TEKNOLOGI MARA

(فضلاً، اكتب موضوع البحث) تصميم برنامج  
اللغة العربية للصف السادس عبر المموك

**DESIGNING AN ARABIC LANGUAGE  
PROGRAM FOR THE SIXTH GRADE  
VIA MOOC**

(لا يزيد من ١٠ أسطر)

بشاس النهار بن فواسا  
(لا يزيد من سطرين)

الماجستير / الدكتورة

يوليو ٢٠٢٦

APPENDIX T: ARABIC THESIS

T2: FORMAT OF A TITLE PAGE FOR A THESIS

The diagram illustrates the format of a thesis title page. It features a central text block within a rectangular frame. The text is centered and includes the university name, the title in Arabic, the author's name, the degree, the field of study, the department, and the date. Red arrows indicate the dimensions: a vertical arrow above the university name is labeled (5 cm), and two horizontal arrows on either side of the title are also labeled (5 cm). A vertical arrow below the date is labeled (5 cm).

UNIVERSITI TEKNOLOGI MARA

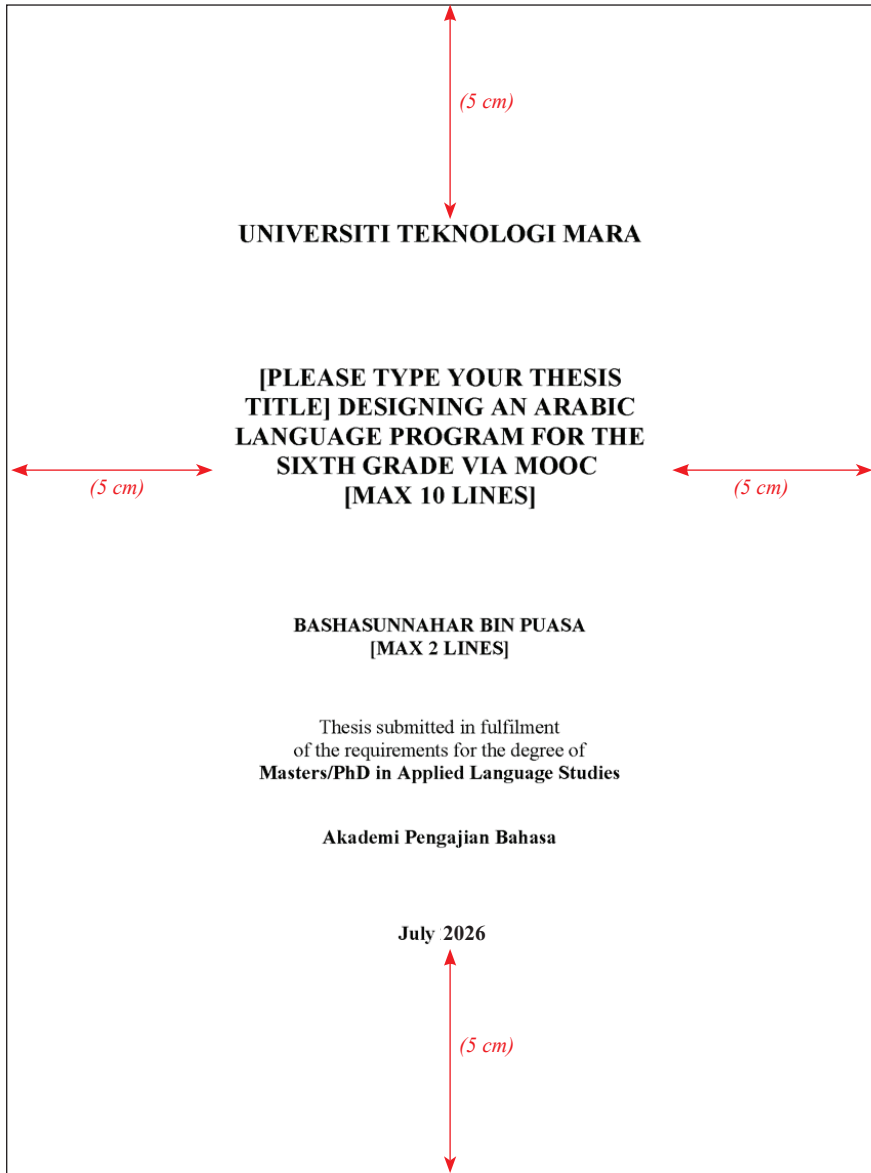
(فضلاً، أكتب موضوع البحث) تصميم برنامج  
اللغة العربية للصف السادس عبر الحوكم  
[لا يزيد من ١٠ أسطر]

بشاس النهار بن فواسا  
[لا يزيد من سطرين]

رسالة لنيل درجة  
الماجستير/ الدكتوراه في الدراسات اللغوية التطبيقية  
أكاديمية الدراسات اللغوية  
يوليو ٢٠٢٦

**APPENDIX T: ARABIC THESIS**

**T3: FORMAT OF A TITLE PAGE IN ENGLISH**



To display “Western Arabic” (0, 1, 2, 3...) **Year (i.e 2024)** of submission on an English page that is otherwise set to display “Eastern Arabic” (٠, ١, ٢, ٣...) year, the following steps should be followed:

**1) Select the English Page:**

- Highlight the **date** on the English page where you want to display “Western Arabic” numbers format.

**2) Change the Language Setting for the Page:**

- Go to the **Review** tab in the toolbar.
- Click on **Language**, then choose **Set Proofing Language**.
- Select **English (United States)** or the desired English language version.

**3) Adjust the Number Format:**

- Click on **File** in the menu, then select **Options**.
- In the **Word Options** window, select **Advanced** from the left-hand menu.
- Scroll down to the **Show document** content section.
- Find the **Numeral** dropdown menu.
- Change the setting to **Context**. This will display numbers according to the language of the text (Western Arabic for English and Eastern Arabic for Arabic).

**4) Ensure the English Page Displays Western Numbers:**

- Once you set the numeral option to “**Context**,” the English page should now display Western Arabic numbers, while the Arabic pages will display Eastern Arabic numbers.

**END OF GUIDELINES ON THESIS/DISSERTATION  
FORMAT FOR POSTGRADUATE**

## **APPRECIATION**

The Institute of Postgraduate Studies would like to express our appreciation to the following individuals for the tireless efforts in preparation and publication of this guideline.

Nur Diyana Turidi

Nazirah Abd Majid

Mohd Azrul Zakaria



الجامعة  
UNIVERSITI  
TEKNOLOGI  
MARA

Institut  
Pengajian Siswazah

**Institute of Postgraduate Studies (IPSiS)**

Level 4 & 5, Bangunan Sarjana  
Universiti Teknologi MARA (UiTM)  
Shah Alam, Selangor Darul Ehsan.