# THESIS FORMAT GUIDELINES POSTGRADUATE PROGRAMS



# FOUNDATION UNIVERSITY COLLEGE OF PHYSICAL THERAPY FOUNDATION UNIVERSITY ISLAMABAD – PAKISTAN

#### FORMATING GUIDELINES

#### **1.** General Guidelines:

- a. Scholar can start the Research work following synopsis defense after receiving the approval from supervisor, Ethics Committee and Graduate Studies Committee (GSC).
- b. Final approval will be provided by BASAR committee of FUI.
- c. The Research work must be completed as per the protocol and details specified in synopsis. Any modification or deviation from original plan can only be done after getting approval from Dean FUCP.
- d. If the tables, figures, diagrams, photographs or any other type of illustrations are reproduced from published literature, they must be properly acknowledged in the thesis.

#### 2. Submission of thesis:

- a. Copies of thesis must be submitted to supervisor on mention date.
- b. After the acceptance from defense committee, it should be given in hard binding.
- c. Submission format:

#### 1. Soft Form:

- a. Soft form of thesis should be submitted in a Compact Disc with Clear details of thesis title, Scholars name and registration no and supervisor name on cover of CD pack.
- Soft form of the final Thesis should be in single file in PDF in addition to Doc format including duly signed Student Academic Progress report, Declaration by Scholar, Supervisor certificate and thesis defense committee certificate.
- c. CD should also contain the final Thesis in PDF and Doc format, Data file (SPSS and/or Excel file), data collection tools and scanned copies of any relevant approvals or permissions, synopsis file, synopsis PowerPoint and thesis defense PowerPoint.

#### 2. Hard Form:

- Each scholar is to submit 3 hard colored copy (1 x for library, 1 x for scholar themselves and 1 x for Supervisor) to supervisor containing copies of all form duly signed by concerned persons and examiners.
- b. Hard Form of Thesis should be printed on 80 Gram A4 Size Page and should be printed on one side only i.e. Right page.

c. Color of the thesis binding shall be Black with golden printing of text. Title of thesis, Scholars name, session year, program and the institute name should be printed on face side of the binding. (Sample attached as Annex A) Moreover, Program Abbreviation, the running title and year/academic session of publication must be on the spine of binding so that thesis title is visible once shelved in library. Sample is as follow

MSPT (NPT)	Effect of virtual reality on Balance	Fall 2009
	Effect of virtual reality of bulance	

- d. Binded hard copy for library must be duly signed by all relevant parties.
- e. Final clearance of graduate will only be done following submission of final hard and soft forms; without which transcript and degree will not be issued.

#### 3. Length of the thesis:

The thesis should be no less than 8000 words excluding initial pages, abstract, bibliography/references and appendices.

#### 4. Text Format:

- a. Writing Style Calibri
- b. Font Style, Size & Numbering Format:
  - 1. Body of thesis: Lower Case, Normal, Size 12
  - 2. Chapter Heading: UPPER CASE/BLOCK LETTERS, Bold, Size 16, Centered
  - 3. Heading 1 (First Major Heading): UPPER CASE/BLOCK LETTERS, Bold, Size 14, Left Indented (1.1.)
  - 4. Heading 2 (Sub-Heading to Major Heading): Lower Case, Bold, Size 12 (1.1.1.) Left Indented
  - 5. Heading 3 (Sub-Heading to Heading 2): Lower Case, Bold, Size 12 (1.1.1.1.) Left Indented
  - 6. Heading 4 (Sub-Heading to Heading 3): Lower Case, Bold, Size 12 (1.1.1.1.1.) Left Indented 0.5'

#### 5. Line and Para Spacing:

a. Scholar should use **1.5 spacing between lines** of the text.

- b. No spacing should be used before or after the para. It should be consistent to line spacing
  i.e. 1.5
- c. New para should start after 6 spaces.

#### 6. Margins:

- a. Left Side Thesis Margin should be 1.5 Inches to provide adequate space for binding.
- b. The *remaining* three (3) sides of the page, top, right side and bottom, must have a *1Inch* margin.
- c. Mentioned requirements apply to all pages including graphs, tables, text and appendices etc.
- d. When landscaping page orientation for a chart or table, etc. the binding side must maintain the 1.5 inches margin.

#### 7. Pagination

- a. For the *initial pages* of the thesis including Student declaration, defense committee certificate, supervisor certificate, acknowledgement etc. use *small Roman numerals (ii, iii, iv, etc.)*.
- b. Starting from introduction *all remaining of thesis* including text, illustrations, appendices and bibliography should be numbered using *Arabic numerical (1, 2, 3, 4, etc.)*
- c. The numbering begins with ii on the Academic progress report section. While the title page counts as "i", there should be no page number visible on the title page.
- d. All pages of the manuscript must be assigned a page number.
- e. Pages containing charts, graphs, tables, or photographs must be numbered consecutively with the text.
- f. Each page must be numbered within the margin. All page numbers must be *centered at the bottom of the page.*
- g. Each Chapter Heading should start from new page.

#### 8. Header:

The running title should be written on right top of all pages starting from introduction section except initial pages (i.e. having roman numbering) **in Sentence case, Calibri, BOLD, Size 10.** 

#### 9. Figures:

- a. Figures and pictures should clarify and augment the text. The selection of sharp, highquality illustrations is of paramount importance. Figures of inferior quality should not be used.
- b. For x-ray films, scans, and other diagnostic images, pictures of pathology specimens or photographs, high-resolution photographic image files are recommended.
- c. Internal scale markers. Symbols, arrows, or letters used in photographs for measurements should stand out on the background.
- d. Place all the figures were such figures/graphs are being discussed.
- e. Figures should be centralized.
- f. Legends/Titles should be placed below the figure along detailed explanations. Legends should be **centralized**, **bold and size 12 in Calibri style**.
- g. Figures/pictures included from a published article or source, should be cited or source should be mentioned along with figure/pictures.

#### 10. Tables:

- a. Data should be placed clearly and concisely to enable the reader to comprehend easily.
- b. Tables should be numbered consecutively and cited in the text. Arabic numerals (i.e. 1, 2, 3, 4 etc) should be used.
- c. The tables should be placed along with the results where they are being stated along with text.
- d. The tables should be added in MS Word. Do not attach tables in the form of pictures.
- e. Tables should be centralized
- h. Provide a short and self-explanatory Legends/title and should be written on top of the table and Legends should be **centralized**, **bold and size 12 in Calibri style**.
- f. In case of use of abbreviated form provide full description in Footnotes should elaborate on the abbreviations.
- g. If any data or table has been included from a published article or source, should be cited or source should be mentioned along with Table.

#### 11. Authorship and Post thesis publication:

a. The ICMJE recommends that authorship be based on the following 4 criteria:

- Substantial contributions to the conception or design of the work; or the acquisition, analysis, or interpretation of data for the work; AND
- 2. Drafting the work or revising it critically for important intellectual content; AND
- 3. Final approval of the version to be published; AND
- 4. Agreement to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved."
- b. It is common view that supervisors name come as first author but unfortunately its not correct. It may seem strange but head of a research project i.e. supervisor is commonly listed at the end. This does not mean that he/she has done the least work. Often, the last position in the list of authors is for the "senior author", that is, the person who has supervised the work.
- c. Order should be listed in the order of their contributions and the person who has made the greatest contribution should appear first. However, names can also be listed alphabetically order.
- d. While these are few of the suggested methods the final authorship list can be prepared with mutual discussion and agreement between scholar, supervisor and co supervisor.
- e. The research work documented in the thesis will be the property of the University but the author can publish the work elsewhere with the proper acknowledgment of the University.

# **CONTENT OF THESIS**

Thesis should include following Components

#### 1. INITIAL PAGES

- a. Title Page (Sample attached as Annex B)
- b. Abstract (Sample attached as Annex C)
- c. Student academic Report (Sample attached as Annex D)
- d. Student Declaration (Sample attached as Annex E)
- e. Supervisor Certificate (Sample attached as Annex F)
- f. Defense Committee Certificate (Sample attached as Annex G)
- g. Dedication (optional)
- h. Acknowledgement
- i. Table of Content (Sample attached as Annex H)
- j. List of Tables (Sample attached as Annex J)
- k. List of Figures (Sample attached as Annex K)
- I. List of Abbreviations (Sample attached as Annex L)

#### 2. BODY OF THESIS

- a. Chapter I Introduction
- b. Chapter II Literature Review
- c. Chapter III Objectives of Study
- d. Chapter IV Hypothesis of Study
  - 4.1. Alternate Hypothesis
  - 4.2. Null Hypothesis
- e. Chapter V Methodology
- f. Chapter VI Results
- g. Chapter VII Discussion
- h. Conclusions
- i. Limitations of Study
- j. Recommendations of Study
- k. References/Bibliography

- I. Appendices
  - 1. Title Approval Letter
  - 2. Ethical Approval Letter
  - 3. Turnitin Similarity Title page and Report
  - 4. Sample size calculator results
  - 5. Data Collection Tools/Questionnaire Sample
  - 6. Permission letter for data collection
  - 7. Any other Appendix

#### **DETAILS OF CONTENT OF THESIS**

#### 1. Title of Thesis:

- a. The title of a thesis is usually the very first thing that people see when considering it as potential read. If a title is vague or uninteresting, potential readers may not be inclined to read the thesis. Considering this Scholar can change the title of the thesis from that of given in synopsis.
- b. The title should preferably contain less than 15 words but Scholar may choose to write a long title if they feel such a title is appropriate for their paper.
- c. The title should clearly convey the scope of the research reported in the paper and be written without abbreviations or acronyms as far as possible.
- d. It is up to the Scholar to decide whether they want to mention any result. A discovery that can be easily conveyed in a few words is a good choice for inclusion in a title.

#### 2. Abstract

Body of the Abstract should be 250-300 words [excluding Keywords]. Abstract should be structured and should Include Background & Objective, Methodology, Results, conclusion and keywords as headings.

#### 3. Acknowledgement:

- a. In Acknowledgement section Scholar can thank the people who have helped them with their research in some way as well as any funders who have supported your work.
- b. Examples of people you can thank: A technician who helped you use a scientific instrument, A colleague who reviewed the paper and provided useful comments or statistical help, A language editor who made the text of your paper clearer etc

#### 4. Equations:

Equations should be entered in the text using equation generator from insert tab or using command key "Alt + =" in Ms word. Equation should be in separate line should be centralized, numbered and must be referred in text.

#### 5. Tables of Contents:

Table of content should contain headings and all sub headings till third heading level (Heading 3) of the thesis, references, and appendices. The fourth level of heading can be omitted from table of content to make it concise. (Sample attached as Annex H)

#### 6. List of Tables:

All the tables in the main body of the thesis with title and page number are to be listed in List of Tables. (Sample attached as Annex J)

#### 7. List of figures/Graphs/Illustrations:

All graphs, figures and pictures should be captioned in main body and hence a full list including their title should be given under list of figures. (Sample attached as Annex K)

#### 8. List of Abbreviations

A list of all abbreviation used in the text must also be attached in the initial pages of thesis. Only standard term and abbreviations preferably MeSH terms must be used if needed in the thesis. When using for the first time, a full word or phrase, together with its abbreviation in bracket except for standard units, must be mentioned. (Sample attached as Annex L)

#### 9. Introduction:

- a. Body of the thesis will start from introduction and should begin from page 1.
- b. Introduction will be considered as Chapter I of the thesis and "Introduction" will be considered Chapter heading. i.e.

#### CHAPTER I

#### INTRODUCTION

- c. Write introduction using the funnel method, starting from two broad topics, identifying problems & issues giving a brief background and coming to reason for conduction of this study/what new will your study be evaluating including its impact. Broadly speaking identify the research gap and significance of the study.
- d. Write the significance and rationale of the study by looking into the general contribution of your study to the scientific evidence and the community, starting from importance to society as a whole, then proceed downwards towards its contribution to individuals

#### **10. Literature Review**

a. Literature Review will be considered as Chapter II of the thesis and "Literature Review" will be considered as Chapter heading. i.e.

#### CHAPTER II

#### LITRETURE REVIEW

b. Literature review should consist of brief summaries of relevant research articles and their critical appraisal.

c. Literature review should consist of review and critical appraisal of at least 10 relevant research articles with 70 % literature from Last 10 years out of which 50% from last 5 years. Scholar can use old reference in exceptional cases e.g. giving definitions, details of tools etc.

#### **11. Objectives of Study**

a. Objectives of Study will be considered as Chapter III and "Objectives of Study" will be considered as chapter heading. i.e.

#### CHAPTER III

#### **OBJECTIVES OF STUDY**

- b. Provide a concrete, clear and quantifiable statement describing what the research is trying to achieve. Should follow the SMART/SMARTER guidelines
- c. Provide Objectives in numeric bullet format. i.e. 1, 2, 3.
- d. Scholar can also divide the objectives under headings of primary and secondary objectives.

#### 12. Hypothesis of Study

a. Hypothesis of Study Heading will be considered as Chapter IV and "Hypothesis of study" will be considered as chapter heading i.e.

#### **CHAPTER IV**

#### **HYPOTHESIS OF STUDY**

b. If Applicable (otherwise skip hypothesis of study as chapter heading and consider methodology as chapter IV) please provide Specific, clear, and testable proposition or predictive statement about the possible outcome of your research study based on a particular property of a population.

- c. Depending upon the objectives scholar is to clearly provide alternate and null hypothesis of the study under subheading of Alternate and Null hypothesis.
- d. Provide the alternate and null Hypothesis bullet form using <sup>1</sup>H<sub>A</sub>, <sup>2</sup>H<sub>A</sub>, <sup>3</sup>H<sub>A etc</sub>. for alternate Hypothesis and <sup>1</sup>H<sub>0</sub>, <sup>2</sup>H<sub>0</sub>, <sup>3</sup>H<sub>0</sub> etc. for Null hypothesis.

#### 13. Methodology:

Methodology will be considered as Chapter V, "Methodology" will be considered as chapter heading i.e.

#### CHAPTER V

#### METHODOLOGY

Chapter V will contain following sub headings. (Numbering of Heading is with relevance to thesis chapter)

#### 5.1. Study Design

Provide adequate detail of study design instead of just name.

#### 5.2. Study Duration

Provide details regarding duration of study keeping in mind the time from which literature search on problem was started including synopsis duration till date of thesis defense.

#### 5.3. Study Setting

Provide detail of study setting where study was performed or from where data was collected. Also provide permission letters from such settings for data collection other than FUCP/FFH in appendices.

#### 5.4. Sample

#### 5.4.1. Sampling Technique

Provide Details of Sampling technique used.

#### 5.4.2. Sample Size

Provide details of sample size including how sample size was calculated and if not collected provide a justifiable reason for not calculating sample size.

#### 5.4.3. Sample Selection Criteria

5.4.3.1. Inclusion Criteria

5.4.3.2. Exclusion Criteria

#### 5.5. Randomization & Allocation

If applicable, Provide details of Randomization and group allocation as what method was used to randomization participants into individual groups.

#### 5.6. Blinding

Provide details of blinding including who was blinded of intervention and how blinding was maintained.

#### 5.7. Intervention details

In case of clinical trials please provide adequate detail of intervention provided to participants of all groups. Detail should be adequate enough with relevant references to reproduce the treatment approach for each group by a novice practitioner.

#### 5.8. Data Collection Tools

- Provide adequate details of each data collection tools with references including details of tool, what it measures, how it measures, scoring guide or evaluation method/guide detail in pictorial form, validity and reliability of mentioned tool.
- b. Provide details of permission obtained for tools (if required).
- c. Provide each tool/questionnaire as appendix.
- d. Provide Detail of Each tool as sub heading as per pattern given below.

#### 5.8.1. Tool 1

#### 5.8.2. Tool 2 etc

#### 5.9. Data Collection Procedure

Provide adequate detail of data collection procedure; how participants were recruited for study, what details regarding study were provided to them, how data was collected, was a self-explanatory question was provided in hard form or was participants of the study were interviewed or how were measurements taken. How collected data was managed or stored. Etc and any other relevant detail related to data collection.

#### 5.10. Ethical Considerations

a. Provide details of all ethical concerns including obtaining informed consent, any injury or difficulty faced by participants and how it was managed, details of ethical approval, how confidentiality of data was maintained or any other ethics related aspects

- b. The information about patients such as names, initial or Medical Record Numbers, Hospital Registration numbers must be kept confidential, especially in illustrative material.
- c. Patients in the photographs, if included in the thesis, must not be identifiable or the photographs must be accompanied with a written consent of the patients. Color photographs are to be preferred.
- d. Provide copy of Ethical approval and informed consent as Appendix.

#### 5.11. Data Analysis Procedures:

Explain data collection procedure in adequate detail. Including what software were used for interpretation of data and analysis of data, what analysis was carried out to explain descriptive statistics. What steps were used in inferential statistics including details regarding selection of appropriate statistical test and evaluation of their assumptions.

#### 14. Results:

a. Results will be considered as Chapter VI and "Results" will be considered as chapter heading. i.e.

#### **CHAPTER VI**

#### RESULTS

- b. Each results should be explained on new page.
- c. All the data that you have obtained in your research should be provided in the results section.
- d. Results can be explained in words, tabular or graphical form with adequate detail so it may make it easy for the reader to understand statistical interference.
- e. Only findings should be stated i.e. in numerical form. Avoid explain results in vocabulary form such as using words like majority, numerous, fewer etc.
- f. Scholar should sub divide the results under headings such as Demographics, Descriptive statistics, Interferential statistics etc.

#### 15. Discussion:

a. Discussion section will be considered as Chapter VII and "Discussion" will be considered as chapter heading. i.e.

#### CHAPTER VII

#### DISCUSSION

- b. The basic purpose of the discussion section is to explain the results of your research.
- c. Scholar should discuss results in detail in this section using inverted funnel method. The discussion is structured in the opposite way of introduction (narrow to broad): starting with an analysis of each results of the study, what do the results actually mean; explain each results in words and discussing them in light of latest researches either supporting or contradicting them. Scholar should also justify his results with evidence-based reasoning and not merely stating the supporting and contradicting studies. Discussion should end with implications or suggestions for future research or practice or how results of your study can be implicated in clinical practice.
- d. Scholar can consider following while writing discussion
  - 1. What your findings mean.
  - 2. How your findings answer the research questions or hypotheses you have stated in the introduction.
  - 3. How your findings are related to the findings of any similar studies done previously.
  - 4. Any implications of your research study for researchers, practitioners, or policymakers.
- e. Discussion of thesis should consist of a minimum word count of 1,500 words.

#### 16. Conclusions:

a. "Conclusion" will be considered as chapter heading. i.e.

#### CONCLUSION

b. Conclude the study in few sentences giving the extract of the study results. The major findings of the thesis versus objectives drawn by the Scholar will be given and concluded in this chapter. The Scholar will also elaborate whether present study requires further investigation. He/She will clearly mention questions arising from the current work which will need further exploration.

#### **17. Limitations of Study:**

a. "Limitations of study" will be considered as chapter heading. i.e.

#### LIMITATIONS OF STUDY

- b. It should be provided on separate page.
- c. Authors should Provide limitations of study including problems faced during study.

#### 18. Recommendations of Study:

a. "Recommendations of study" will be considered as chapter heading. i.e.

#### **RECOMMENDATIONS OF STUDY**

- b. It should be provided on separate page.
- c. Provide recommendations for future studies, what else can be done, how limitations can be covered etc.

#### **19.** References/Bibliography

a. "Reference" will be considered as chapter heading. i.e.

#### REFERENCES

- b. It should be start from new separate page.
- c. Referencing or bibliography should be entered using *reference management software* such as Endnote or Mendeley etc.
- d. *Vancouver style* should be used for proper references.
- e. References should be in continuous pattern in body of thesis.
- f. If desired by the supervisor Scholar can provide bibliography separately from references in thesis.

#### 20. Appendices:

#### a. Title Approval Letter

Attach Title approval letter issued by Graduate Examination and Research Committee (GERC).

#### b. Ethical Approval Letter

Attach Ethical approval letter issued by Ethical review committee of FUSH or of any other organization.

#### c. Turnitin Similarity Report

1. All supervisors have access to Turnitin plagiarism software. The report of Turnitin must be attached at the end of thesis as appendix. Text similarity should not be more

than **15% similarity**. Any single source having similarity of 5% or more will be thoroughly reviewed by supervisor.

- 2. A Scholar whose thesis is proven to be plagiarized during the academic session will be suspended from university roll for a period of two years and admission will be cancelled. Following which the Scholar will have to register with university and will have to prepare a new research project.
- 3. Degree of the Scholar will be cancelled if the thesis of a Scholar is proved to be plagiarized following graduation from university.
- 4. The turnitin report should be duly signed and stamped by the supervisor.
- d. Data Collection Tools/Questionnaire Sample.
- e. Sample size calculator results.
- f. Any other Appendix

**Postgraduate Thesis Guidelines** 

Annex A

# **"THESIS TITLE"**

(BLOCK LETTERS, BOLD, Calibri style, Size 18)



SCHOLAR NAME SCHOLAR NAME in BOLD, BLOCK LETTERS, Calibri style, Font Size 14

# **MASTER OF SCIENCES IN PHYSICAL THERAPY**

(REPLACE RED TEXT WITH SPECIALTY NAME HERE)

# FOUNDATION UNIVERSITY COLLEGE OF PHYSICAL THERAPY

# FOUNDATION UNIVERSITY ISLAMABAD – PAKISTAN

Month,Year

Annex B

# **"THESIS TITLE"**

(BLOCK LETTERS, BOLD, Calibri style, Size 18)



### SCHOLAR NAME BOLD, BLOCK LETTERS, Calibri style, Font Size 14

REGISTRATION NO BOLD, BLOCK LETTERS, Calibri style, Font Size 14

A thesis submitted in partial fulfillment of the requirements for the award of degree of Master

of Science in physical therapy (replace red text with specialty name here)

SUPERVISOR NAME: BOLD, BLOCK LETTERS, Calibri style, Font Size 16

CO-SUPERVISOR NAME: BOLD, BLOCK LETTERS, Calibri style, Font Size 16

# FOUNDATION UNIVERSITY COLLEGE OF PHYSICAL THERAPY FOUNDATION UNIVERSITY ISLAMABAD – PAKISTAN

Month,Year

Annex C

#### ABSTRACT

#### **BACKGROUND & OBJECTIVES:**

Provide a brief background along with objectives of the study

#### **METHODOLOGY:**

Provide methodology including study design, time and location of the study, sampling technique, sample size, sample selection criteria, outcome measures/tools, data collection procedure and other relevant information.

#### **RESULTS:**

Provide main findings (giving specific effect sizes with frequencies and percentages, and their statistical and clinical significance, if possible)

**CONCLUSION:** Provide important aspect of study findings

**KEYWORDS:** Provide 3-5 Keywords /Mesh words

Annex D

#### STUDENT ACADEMIC REPORT

#### For the period from Month & Year to Month & Year

The Of	Thesis:					
S.No	Scholar Name		R	egistration No	Signature	
1.						
Progra	m:					
Batch						
Email address of Scholar						
Cell Nu	mber of S	cholar				
Thesis	Research	Area of Specialty				
Project	ID:		GSC Ap	GSC Approval Date:		
Remarl	ks of Supe	ervisor:				
Over All Progress of Scholar						
Over A	II Progres	s of Scholar				
	ll Progres Poor	s of Scholar Satisfactory	Good	Very Good	Excellent	
	_	- <u>-</u>	Good Signature		Excellent	
F	_	Satisfactory				
F	Poor	Satisfactory				
F	Poor of Supervi	Satisfactory				
Name o	Poor of Supervi ge IRC	Satisfactory				
Name of In char, Dr. Mu	poor of Supervi ge IRC hammad I	Satisfactory				
Name of In char, Dr. Mu	poor of Supervi ge IRC hammad l ostgradua	Satisfactory				
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Name of In char, Dr. Mu	poor of Supervi ge IRC hammad I ostgradua hammad I	Satisfactory				

Annex E

# **DECLARATION/CERTIFICATION**

I hereby solemnly certified that (1 to 6 below):

- 1. work titled "Enter Title of Thesis here in bold and italic within inverted commas" is our own work
- 2. the subject project is genuinely novel and that there is no plagiarized material including self-plagiarism.
- 3. the material that has been used from other sources, has been properly acknowledged / referred.
- 4. material included in this thesis has not been used in part or full in a manuscript already submitted or in the process of submission in a partial/complete fulfillment of the award of any other degree from any other institution.
- 5. that the thesis might be made available for public use by university in soft or hard form.
- 6. the university will be acknowledged in any publication arising from this thesis.

I understand that correspondence will be sent to the email address of scholar mentioned in this thesis and I will maintain this address for future correspondence.

**Name of Scholar:** (Enter Name Here)

Sign

**Registration No:** (Enter Reg. No. Here)

nature:	

Annex F

#### SUPERVISORS CERTIFICATE

I (Enter Name of Supervisor with Designation here) certify that to the best of my knowledge the research work embodied in this thesis, entitled *"Enter title of thesis in bold and italic format here within inverted commas"* was entirely carried out by Mr./Miss./Ms. (Enter Name followed by registration no of Scholar here) under my direct supervision and guidance from (Enter Date) to this date and has not been used in part or full in a manuscript already submitted or in the process of submission in a partial/complete fulfillment of the award of any other degree from any other institution.

I further certify that necessary corrections and suggestions recommended by External examiner, internal examiner and Graduate examination and research committee (GERC) during thesis defense have been incorporated and I have personally verified the required correction. I further certify that I have checked the citations, format of thesis, literature review, data, statistical methodology, results, appendix and all relevant aspects of this thesis and certify their correctness/authenticity as per university standards and requirements. I hereby agree to acknowledge the university in any publication arising from this thesis in future.

I fully endorse the final submission of this thesis as partial fulfillment of the requirements for the degree of Master of Science in **replace bold text with degree name**.

Supervisor's Name:	Signature:	
Designation:		
Date:	Stamp:	

Annex G

# THESIS DEFENSE COMMITTEE CERTIFICATE

Title of Thesis:

We certify that we have attended the thesis defense seminar held on *(Enter date here)* and have also read this thesis and that, in our opinion, it is fully adequate in scope and quality as a thesis for the degree of Master of Science in **replace bold text with degree name**.

NAME OF EXAMINER

SIGNATURE

1. Add name here

**External Examiner** 

2. Add name here

**Internal Examiner** 

Annex H

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# LIST OF ABBREVIATIONS

SERIAL NO	ABBREVIATION	DESCRIPTION
1	ABC	Activities-Specific Balance Confidence Scale
2	ADL	Activities of Daily life
3	AR	Augmented Reality
4	AS	Ankle Strategy
5	BBS	Berg Balance Scale
6	BOS	Base of Support
7	ВТ	Balance Training
8	СОМ	Centre of Mass
9	СОР	Centre of Pressure
10	FES	Fall Efficacy Scale
11	FRT	Functional Reach Test
12	HMD	Head mounded Display
13	HS	Hip Strategy
14	IVG	Interactive video Gaming
15	LOS	Limits of Stability
16	PG	Posturography
17	SS	Stepping Strategy
18	TUG	Time up and GO Test
19	VR	Virtual Reality
20	VRBT	Virtual Reality Balance training