

Guidelines for Synopsis and Thesis Preparation



(Examinations branch)

National Defence University
Islamabad- Pakistan

Foreword:

The research work at universities helps and guides the students for the preparation of uniform thesis for the award of respective degree. The intention of these guidelines is to provide a technical framework for the preparation of theses. If the thesis is not presented in the required format, it will not be accepted, nor will the degree be conferred until all the required specifications have been met. Further, the thesis will not be microfilmed, limiting the availability of the research to other scholars within the academic community and beyond.

For information on policy and procedures governing the defence of the thesis, both at the master's and doctoral level, please consult the Examination branch NDU or the departmental supervisor.

In writing a thesis students must conform to accepted standards in organizing and presenting their data clearly and logically, and in applying accepted practices of manuscript form consistently. Strict adherence to the standards which follow ensures:

- reader accessibility,
 - the ability to reproduce the thesis on request, and
 - the durability of the archived copy of the thesis.
- Reader accessibility requires that the thesis be carefully prepared. Only good quality theses will be reproduced and microfilmed. Durability depends on quality paper and correct binding of the thesis.

Close attention by the student to these criteria will expedite the processing and availability of theses.

TABLE OF CONTENTS

Chapter no.	Title	Page
1.	THESIS WRITING OVERVIEW	5-9
2.	WRITING SYNOPSIS FOR A M.PHIL OR PH.D. RESEARCH PROJECT	10-14
3.	MSC / M.PHIL/PH.D. THESIS PATTERN	15-20
4.	RESEARCH FACILITIES & PLAGIARISM POLICY	21
5.	FLOW DIAGRAM MSC THESIS	22
6.	FLOW DIAGRAM M.PHIL THESIS	23
7.	FLOW DIAGRAM PHD THESIS	24

THESIS WRITING OVERVIEW

THESIS WRITING OVERVIEW**1. Definition of a Thesis**

Thesis in this guidebook refers to a documented report of the process followed by and the results of original research conducted by the students to fulfill the requirements for a Post-Graduate degree. The thesis should be presented in a manner that will reflect credit on the student, the faculty, and the University.

2. Organization of the Thesis

A thesis is made up of three main parts namely preliminary pages, text and references.

3. Declaration**Supervisor's Declaration**

A thesis is to be submitted for the purpose of examination. It must obtain prior declaration by the supervisor on the standard and quality of the thesis.

4. Declaration Page**Student's Declaration**

This page should contain declaration by the student on originality of the thesis. The declaration should be signed.

5. Dedication Page (optional)

The dedication must be brief, not more than one paragraph, and must not contain any number, chart or photograph.

6. Acknowledgement (optional)

The student may acknowledge the assistance of various individuals or organizations in successfully producing the thesis. This should be written in one page.

7. Abstracts

The abstract should be brief, written in one paragraph and not exceed 300 words. An abstract is different from synopsis or summary of a thesis. It should state the field of study, problem definition, methodology adopted, research process, results obtained and conclusion of the research. The abstract can be written using single or one and a half spacing.

8. Introduction

Set the scene and problem statement. Introduce structure of thesis.

9. Background

Demonstrate wider appreciation (context). Provide motivation.

10. Related Work

Survey and critical assessment. Relation to own work.

11-13. Analysis, design, implementation and interpretation of results

14. Critical assessment of own work

State hypothesis, and demonstrate precision, thoroughness, contribution, and comparison with closest rival.

15. Table of Contents Page

The Table of Contents page must start on a new page. It should list all sections, chapters and sub-headings. The titles must be written using the same words as those written in the text.

16. List of Tables

This page should list all the tables found in the thesis. The page number of the table must also be included. The table numbers should be arranged according to the chapters.

17. List of Figures

Diagrams, photographs, drawings, graphs, charts and maps are included as figures. The list should be written similar as the List of Tables

18. List of Symbols/Abbreviations/Notations/Terminology

All symbols or abbreviations or notations or terminology found in the text should be listed on this page. They are listed in the following order:

- Roman letters - alphabetical order
- Greek letters - alphabetical order
- Superscripts - alphabetical order
- Subscripts - alphabetical order

19. List of Appendices

All appendices should be listed on this page.

20. Text

A thesis must be divided into chapters. A title must be given and it should reflect its content. A new chapter must begin on a new page. A chapter must be divided into sections. These sections must be given appropriate titles and numbered. Texts must be written in paragraphs. Long paragraphs should be avoided. Each paragraph must describe an issue or subject. There must be continuity between paragraphs.

The text should contain:

- (i) an introduction and background on the study or research;

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

21. Citation in the Text

Citation is a means of formally recognizing within the text, the resources from which the information or idea were obtained. The purpose is to acknowledge the work of others, to demonstrate the body of knowledge in which the work is based on and to lead others.

22. Quotations in the Text

A quotation must be written in a separate paragraph. If the quotation is in a different language, it must be written in *italic*.

23. Tables in the Text

All tables must be numbered using Arabic numeric. A caption should be positioned at the top of the table. If the caption is written in a single line, it should be centered. If the caption is written more than one line, it should be align to the left. Tables must be numbered with respect to the chapter.

24. Figures in the Text

Illustrations such as maps, charts, graphs, drawings, diagrams, and photographs are referred as *figures*. All figures must be clear and of high quality. Figures must be numbered using Arabic numeric. A caption should be located at the bottom of the figure. If the caption is written in a single line, it should be centered. If the

caption is written in more than one line, it should be align to the left. Figures are numbered with respect to the chapter. A figure should be positioned after it has being cited for the first time in the text. All figures in the chapter can also be grouped together and positioned at an appropriate location. All figures must be listed in the List of Figures page. Illustrations in the form of CD's, slides, and others should be placed in specially made pockets glued to the inner side of the back cover. Oversized illustrations in the form of plans, maps, charts, graphs, and others should be reduced to fit a single page unless the oversized materials are absolutely necessary for clarity and understanding. For illustrations other than above, please refer to the following guidelines;

(i) Photographs

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

(ii) Newspaper Cuttings or Similar Materials

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

25. References

References are detailed description of items from which information were obtained in preparing the thesis. All references must be listed at the end of the text.

26. Further Work

27. Summary & Conclusion

28. Appendix

Appendices are supplementary materials to the text. These include tables, charts, computer program listings, and others.

29. Bibliography

The bibliography should contain entries of all references used in the preparation of the paper including all references cited in footnotes and every work relevant to the author's formulation and solution of problem

WRITING SYNOPSIS FOR A M.Phil or Ph.D. RESEARCH PROJECT

In order to encourage and expand M.Phil or Ph.D. research, there is need to make it an active part of the academic life of the National Defence University. As a prestigious University of Pakistan, we have to ensure that a reasonable standard of research is maintained at NDU. The University regulates through its bodies like the Advanced Studies and Research Board that the M.,Phil and Ph.D. research programs are properly planned and executed to maintain the standards.

A research proposal for MSc/M.Phil/ Ph.D. registration purely for social sciences should include certain basic components, in which a number of questions need to be addressed. Why research on the proposed topic should be undertaken and what gains are likely to be achieved? What has been done previously in this or related areas? What are the objectives of this study and how these will be achieved? Are the facilities required for doing the proposed research available? An extensive initial exercise should help in designing a sound research project, which is likely to make a significant contribution in successful completion of MSc/M.Phil/Ph.D. research.

Components of a Synopsis

The following components should be provided in a synopsis of M.Phil and Ph.D. research project. The details may, however, vary according to the field of study.

1. Title Page

RESEARCH PROPOSAL →

Time New Roman
18 Bold

TOPIC OF RESEARCH

Time New Roman
14 Normal
Capital Letter



1.5"

1.25"

SUBMITTED BY

RESEARCH SUPERVISOR

CO-SUPERVISOR (if nay)

(with work address and affiliation)

Time New Roman
14 Normal
Capital Letter

A.B.C
M.PHIL/Ph.D SCHOLAR

X.Y.Z
Designation _____

X.Y.Z
Designation _____

Time New Roman
12 Normal
Capital Letter

ADVANCED STUDY & RESEARCH BOARD →

Time New Roman
14 Normal
Capital Letter

(Convener)

(Member)

(Member)

(Member)

(Member)



Higher Education Commission
Sector H-9 Islamabad
www.hec.gov.pk

Time New Roman
16 Bold

2. Topic

The topic for research should be selected carefully. It should be specific and about the general issues at national or international level.

3. Introduction

It should provide a brief description to explain the area of the proposed research work by the researcher.

4. Review of Literature

A review of the relevant literature is another very important part of the synopsis, showing the work done previously in the area of proposed research is essential to plan further research effectively and in a proper way. The information given in the review should be supported by references.

5. Justification and Likely Benefits

It is important to provide justification for undertaking the proposed research, perhaps in the light of previous work done. It should be possible in most cases to predict the specific and general benefits likely to be achieved as a result of completion of the proposed research.

6. Main Objectives of the Study

Broad objectives to be achieved should be clearly mentioned and these should be itemized. These objectives will indicate the major aspects of the study to be undertaken.

7. Hypothesis of Study

Hypothesis is statement which is to be tested for possible acceptance or rejection. Hypothesis are of two types i.e. Null (H_0) and Alternative (H_1). Null hypothesis is tested for possible rejection, where as alternative hypothesis is tested for possible acceptance.

8. Significance of Study

It emphasized on the significance/ importance of the research work/study i.e. why we selected the topic under discussion.

9. Statement of Problem

The researcher has to clearly identify the problem/issue selected for thesis.

10. Plan of Work and Methodology

A plan of work describing the various aspects of the study in a logical sequence along with the methodologies to be employed, are the most important cruxes of any research plan. It helps to demonstrate that the researcher has a fairly good idea about the nature of work likely to be involved. In the case of social sciences what resource materials will be used; whether the required information will be obtained from primary or secondary sources, etc. A time schedule for the various aspects of the proposed research may be provided wherever possible. Methodology includes the following:-

- Sources of data (Primary or Secondary)

Survey, questionnaires, Interviews, focus group interviews, observation, case-studies, diaries, critical incidents, portfolios, books, journals, periodicals, abstracts, indexes, directories, research reports, conference papers, market reports, annual reports, internal records of organizations, newspapers & magazines, CD-ROMs, on-line databases, Internet, videos & broadcasts.

- Sample size:

Sample size should be normal neither too small nor too large.

- Data Collection Techniques (Registration, Questionnaires, interviews, Direct Observations)

- Analysis of Data

Data is to be analyzed according to the requirement of topic. After collecting the data, it is to be tabulated. The total variables used are to

be included in the study and then the relationship between variable will be analyzed.

11. Place of Work and Facilities Available

In order to complete the proposed research some specialized facilities may be required. For example in case of experimental sciences different equipments may be involved or in the case of, may be, a study on a scholar, the relevant literature may be available in a foreign country. Therefore it is important to identify the place where the research work will be undertaken and whether the resources and facilities required for doing the research are available like easy access to the external academic markets via internet.

12. References and Bibliography

Synopsis should contain at the end a list of references, and a bibliography if required. These should be written on a standard pattern.

13. Length of a synopsis

It will be difficult to define an overall length for a synopsis for MSc/M.Phil/Ph.D. research in such varied fields of study. Whereas it should be concise as far as possible and avoid repetitions, it should also provide sufficient details on the various aspects mentioned above to show that the research involved has been well understood and planned, and it is of an acceptable academic merit. The total length of a synopsis may run from 1,500 to a few thousand words.

MSc / M.Phil/Ph.D. THESIS

PATTERN

All theses presented in typescript for the degree of MSc/M.Phil/ Ph.D should comply with the following specifications unless permission to do otherwise is obtained from the relevant authority / body

• **SIZE OF PAPER**

A4 size be used.

• **PAPER SPECIFICATION**

Five copies on good quality paper (minimum 80 gsm) be submitted.

• **METHOD OF PRODUCTION**

The text must be typewritten in acceptable type face (readable) and the original typescript (or copy of equal quality) must normally be submitted to Exam branch.

• **LAYOUT OF SCRIPT**

Typescript should appear on one side only, lines; at least one-and-a-half spaced. Footnotes, quotations, references and photographic captions may be single spaced. Where appropriate, these should contain lists giving the locations of figures and illustrations.

- **FONT SIZE**

Title Page	18-22
Headings / subheadings	14-16
Text	10-12
Footnotes	8-10

Footnotes be given on the same page where reference is quoted

- **TYPE STYLE**

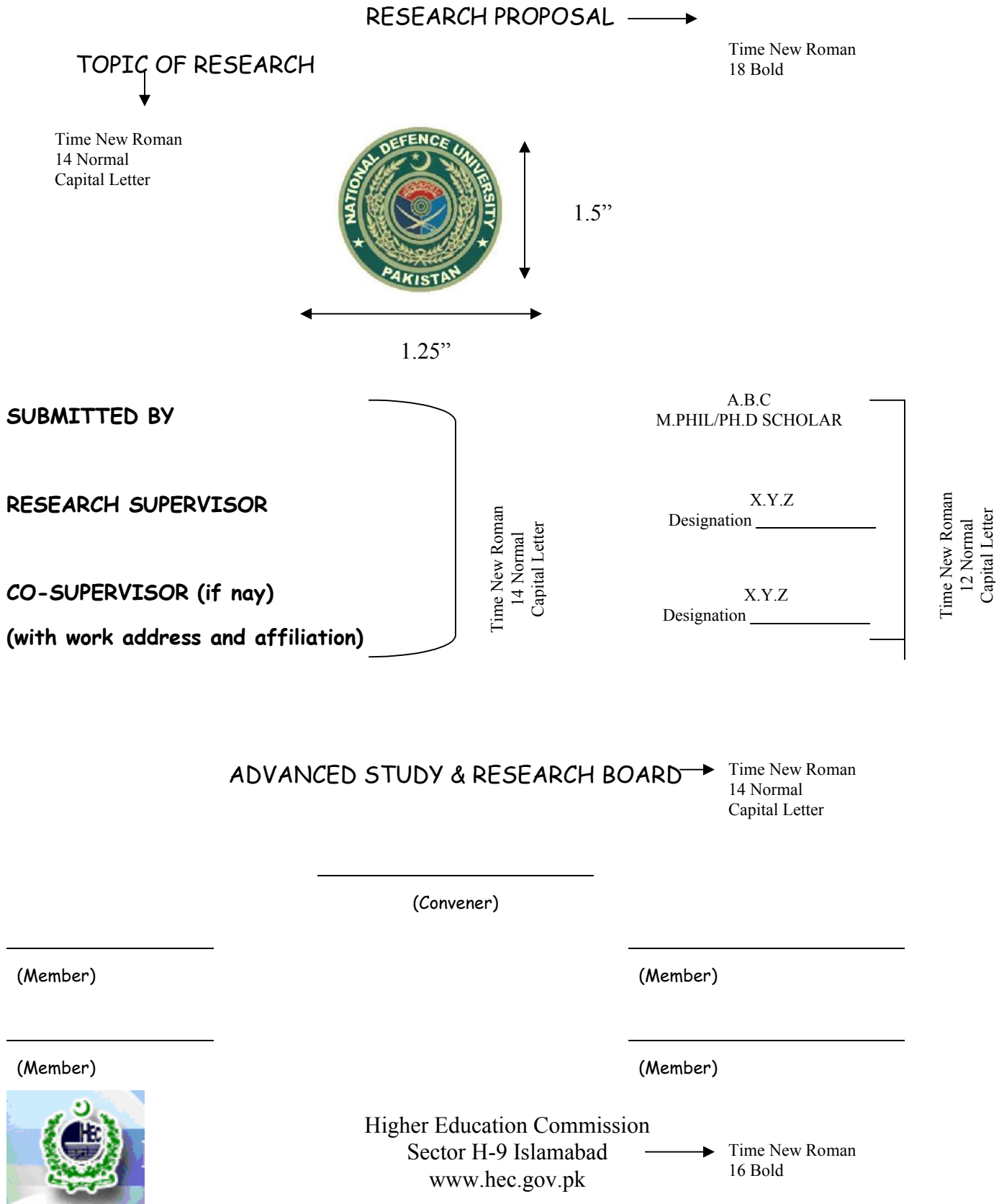
Times New Roman

- **MARGINS.**

At least $1\frac{1}{4}$ - $1\frac{1}{2}$ inches (3.17-3.81cm) on the left-hand side, $\frac{3}{4}$ - 1 inch (2 - 2.54cm) at the top and bottom of the page, and about $\frac{1}{2}$ - 0.75 inches (1.27 - 1.90cm) at the outer edge. The best position for the page number is at top-centre or top right $\frac{1}{2}$ inch (1.27 cm) below the edge. Pages containing figures and illustration should be suitable paginated.

THE PREFERABLE LAYOUT OF THE THESIS

1. Title Page



2. Abstract / Summary
3. Acknowledgements
4. Abbreviations not described in the text
5. Contents
6. List of Tables (where applicable)
7. List of Figures (where applicable)
8. Introduction (including literature review) or

a. Introduction

It should provide a brief description to introduce the area of the proposed research work.

b. Review of Literature

A review of the relevant literature showing the work done previously in the area of proposed research is essential to plan further research effectively. The information given in the review should be supported by references.

As separate chapters as per requisite of the subject

9. Main Objectives
10. Hypothesis of Study
11. Significance of Study
12. Statement of Problem
13. Material and Methods
14. Results

May comprised of one chapter or a number of chapters depending upon the subject matter/ requirements
15. Discussion (including Conclusion/s, Recommendation/s where applicable)
16. References / Bibliography / Literature Cited
17. Appendices (where applicable)

18. Any other information specific to the respective discipline

- **LENGTH OF THESIS**

Whilst the regulations do not contain a clause relating to the maximum length of theses, it is expected that work presented for the degree of MSc/M.Phil/PhD should normally be between 40,000 - 120,000 words of text. Candidates wishing to greatly exceed these sizes should discuss the matter with their supervisors

- **PUBLISH WORK**

Published work from the theses be included as appendix (Reprints/ proof / preprint).

- **BINDING**

All final theses and published work presented for higher degrees must be bound in a permanent form or in a temporary (hard binding will be provided after defense of the thesis) form approved by the Advanced Studies and Research Board; where printed pamphlets or off-prints are submitted in support of a thesis, they must be bound in with the thesis, or bound in such manner as Binderies may advise. Front cover should give title of the thesis, name of the candidate and the name of the Institute/ Department/ Centre/ College through which submitted, in the same order from top to bottom. The lettering may be in boldface and properly spaced. Their sizes should be: title 24 pt., name of the candidate 18 pt. and the name of the department/ institute/ centre/ college 18 pt. The colour of binding for different degrees in the Science subjects and Social Sciences is as follows:

SOCIAL SCIENCES

Ph.D.	Light Maroon/ Light Gray
M.Phil	Light Green/ Black
MSc	Dark green/ Black

Spine of the thesis should show "Ph.D thesis" on top across the width of spine, name of the candidate in the middle and the year of submission across the width at the bottom.

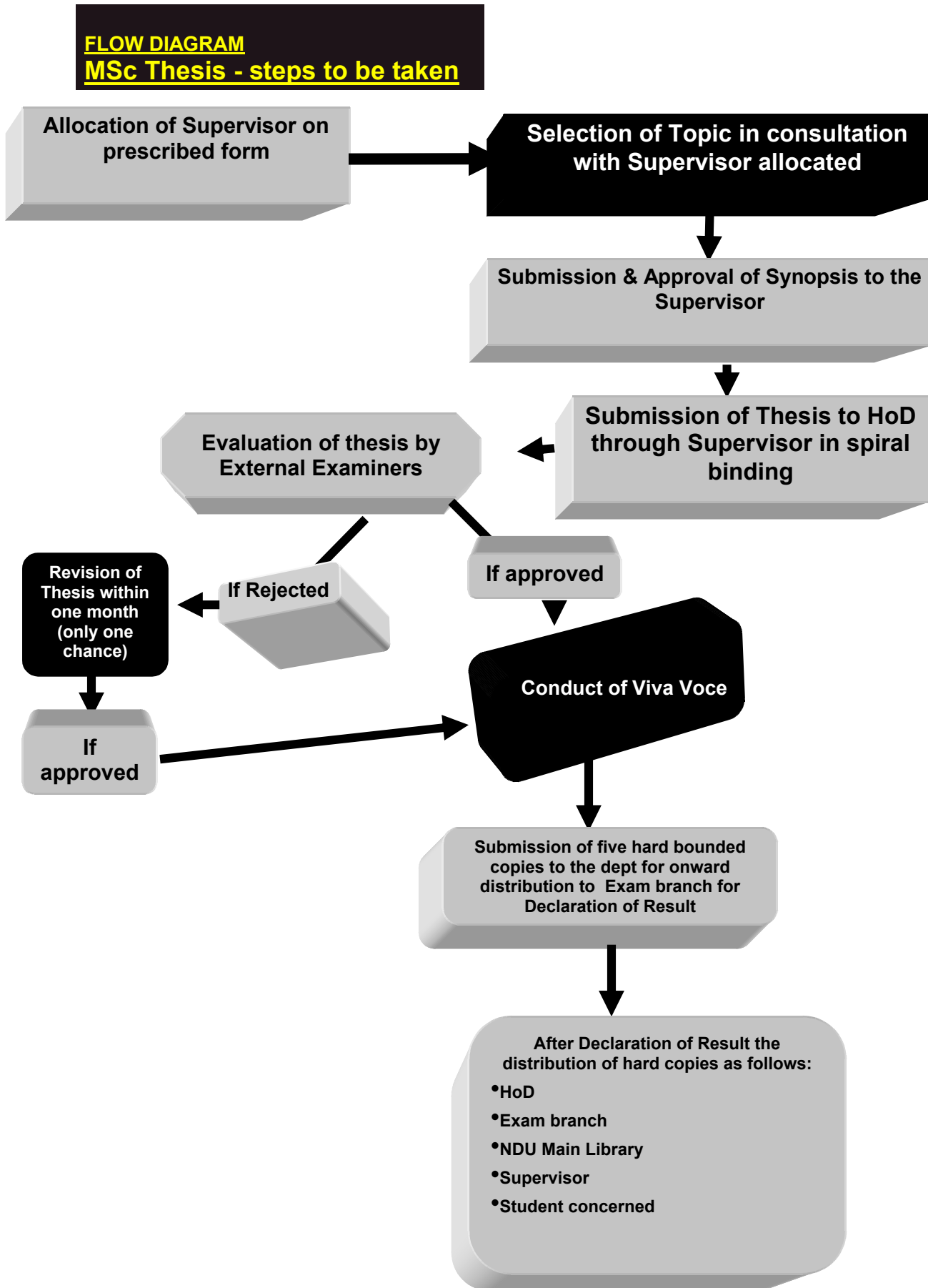
Research Facilities for students at NDU Library

1. **Library.** The University has a well-stocked library for reading and reference material. It subscribes to a variety of magazines of international repute and standing, which can serve as a useful tool for your research.
2. **MERLN Database.** Military Education Research Library Network (MERLN) data base has also been provided at the Library. The system has vast database and considered by many a useful resource for pursuing quality research work. DD Library may be approached for necessary guidance to consult the site.
3. **HEC – National Digital Library.** NDU library has acquired access to HEC National Digital Library. It provides access to international scholarly literature based on electronic delivery. The resources are high quality peer reviewed journals, databases, articles and e-books across a wide range of disciplines.
4. **Internet.** The University has provided quality internet connections at the following places:-
 - a. All residences at the campus.
 - b. Main library.
 - c. Computer laboratory.
5. **Archives.** Research papers produced by the participants of the previous courses can also be consulted for guidance with the prior permission of Thesis Supervisor.

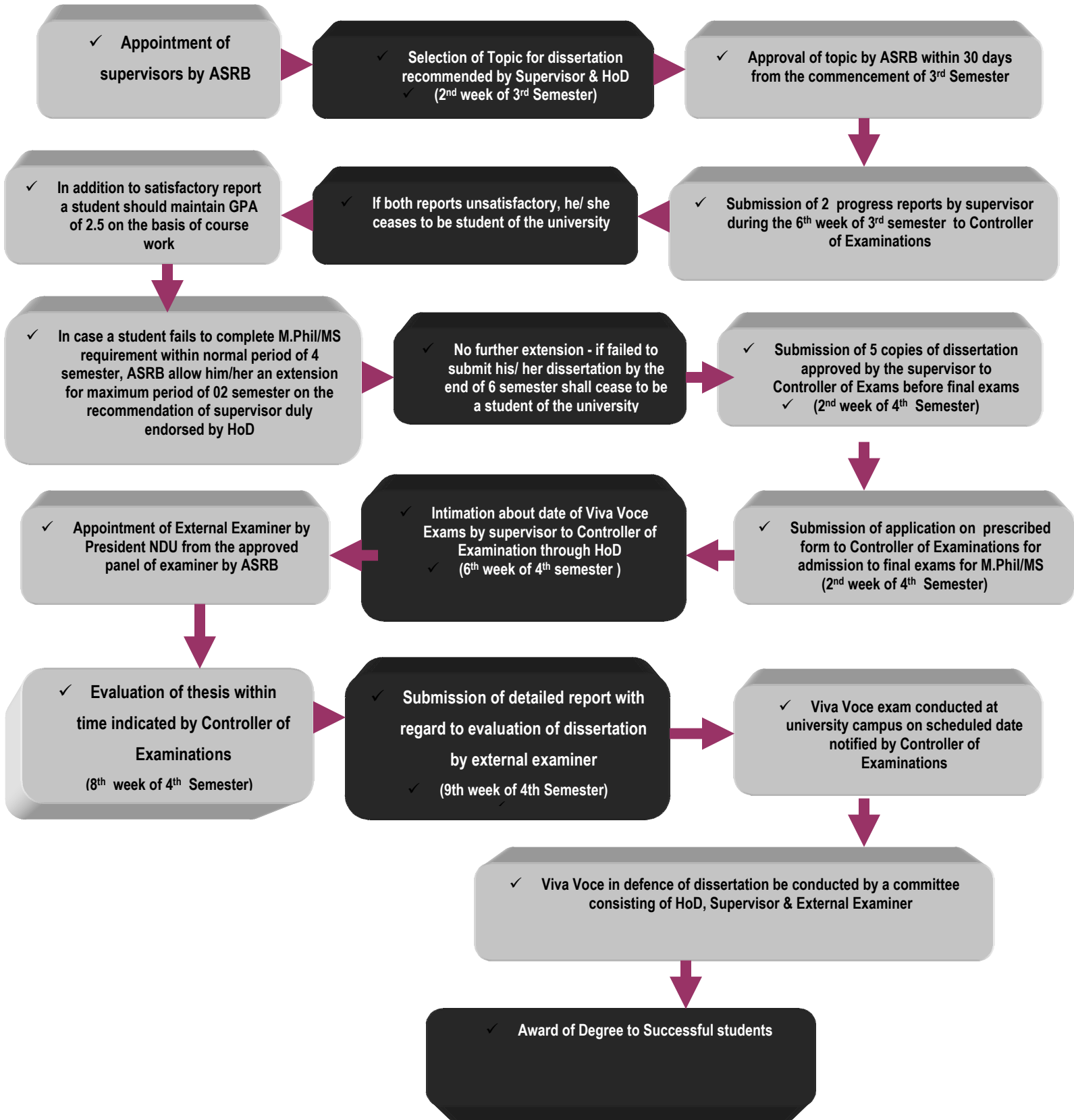
Plagiarism Policy

Note: The Plagiarism Policy in detail is available at NDU Exam branch as well as on NDU Website: www.ndu.edu.pk

FLOW DIAGRAM
MSc Thesis - steps to be taken



FLOW DIAGRAM - M.PHIL THESIS



FLOW DIAGRAM - PhD THESIS

