

Item No. 5. Thesis format for graduate scholars

The thesis format for MPhil and PhD scholars was presented to the members of Board for approval and consideration

Thesis format for Graduate Scholars

All the MPhil/PhD students will have to conduct practical research project with their assigned/selected supervisor and co-supervisor. The research synopsis will require an approval from the competent authorities according to the requirements of HEC. The research dissertation for MPhil degree will be evaluated by two national researchers having good experience in the relevant field whereas the PhD thesis will be evaluated by two international reviewers having experience of quality research in scientifically advanced countries of Asia, Europe and America and one local reviewer who must have a track record of quality research in the relevant field. In addition to that all rules and regulations of Hazara University and HEC will be applicable to the MPhil/PhD researchers of the Center. The PhD researchers will require to publish at least one research article from their thesis work in some HEC recognized journal before the submission of research thesis.

Hazara University will entertain only those theses, which will be presented with the following format.

General Guide line for Thesis production

Thesis size

Ideally the length of thesis should be 150-200 pages.

Paper Size

Use A4 size paper (210 mm wide and 297 mm long).

Paper Quality

White bond paper weighing 80-85 g/m² or more should be used. Essentially the same quality of paper should be used throughout. Photographs or images with dense colors may be printed in single side on glossy paper.



Margins

A margin of 1.5" is to be provided on left and 1" at right sides, whereas top and bottom margins should be 1". No print matter should appear in the margin except the page numbers.

Font

Book Antigua 12 point font has to be used throughout the running text. The captions for tables and figures should have font size of 11 and foot notes should be set at font size 10. Main Heading 14 bold, Sub - heading 12 bold and body 12 normal. Running text should be set in 12-point and fully justified. First line of paragraph should have indentation of 15 mm.

Technical/Scientific names

Scientific/ technical names should be in accordance with relevant rules.

Table / Figure/ Equation Format

Tables, figures and equations shall be numbered chapter-wise. If there are 15 figures in Chapter 3, then they are numbered from Figure 3.1 onwards upto Figure 3.15. For example, second figure of Chapter 3 will be numbered Figure 3.2 which may be placed in Section 3.4.3. The figure can be cited in the text as Fig. 3.2 or Figure 3.2, however consistent citation format should be followed throughout the thesis. Tables shall be numbered similarly (Table 2 in Chapter 3 will be numbered Table 3.2) and shall be cited in the text as Table 3.2. Figure caption shall be located below the figure. Table number and caption shall be located above the table. Equations are aligned to the centre of the page with equation number given at the end of the line within brackets.

Title

1. Bold, ideally non fragmented single sentence.
2. Concise and self contained.

Abstract

1. Abstract should be a self-contained comprehensive summary of the thesis. It should have a concise description of the problem(s) clear methodology for solving it (them), important results, conclusions and recommendations for the readers. An abstract must be. The abstract should not contain references.
2. Write your abstract in one paragraph without indent and with proper punctuations.
3. Words limit should be from 250 to 300 words, but in some cases it may exceed.



4. Start your abstract with emphasis on the problem/question(s) to be addressed. It means that first 1-2 sentences should describe the synthesis of entire introduction of your thesis. Clearly mention the unanswered questions e.g. the genetic variability in the population of Awan tribe is not known at molecular level.
5. Include a sentence or two describing the objectives of your study. For example, the objective of this research was to identify SNP to discriminate the ethnic groups residing in Pakistan.
6. Describe materials and methods in about 2-3 sentences (how you have conducted the experiment).
7. Describe your results in about 2-3 sentences (What have you accomplished?).
8. At the end of your abstract provide a conclusion with future recommendations in about 1-2 sentences.

Introduction

1. The first part shall contain general discussion related to study, supported by observations, secondary information and relevant references.
2. The literature review should be imbedded a continuation to the introduction and deals with the identification, synthesizing and presenting the available literature in a greater detail.
3. The second part shall contain background study/information supported by references.
4. The third part shall comprise of scope and limitations of the study followed by objectives.
5. What is the topic and why is it important? State the problem(s) as simply as you can.
6. The introduction should be interesting. If you bore the reader here, then you are unlikely to revive his/her interest in the materials and methods section.
7. Your introduction should tell where the thesis is going, and this may become clearer during the writing.
8. Introduction is very important and may be spread over to several paragraphs, each explaining an idea relevant to the topic or subject under review.



9. Introduction should contain citations embedded in the text according to the international standard publication format.
10. The last paragraph(s) must explain the problems, constraints and deficiencies in the information on the subject under review. Introduction should be concluded with the objectives of the review. For example, ".....therefore the objectives of this review are to comprehensively identify and review the available information on the use of mtDNA for lineage characterization...." The information will be critical for the study of anthropology."

Materials and Methods

It shall comprise of all the methods and techniques used by the researcher during his research dully supported by references accordingly:

Results and discussion

1. The results and discussion should be combined in the theses.
2. Make sure that you have used appropriate statistical analyses. Where applicable, show measurement, errors and standard errors on the graphs. Use appropriate statistical tests.
3. It shall comprise of all the results obtained by the researcher during his research dully supported by references accordingly.

Conclusions and Recommendation

1. Your thesis should include your conclusions in very brief form.
2. It is often the case with scientific investigations that more questions than answers are produced. Does your work suggest any interesting further avenues? Are there ways in which your work could be improved by future workers? What are the practical implications of your work?
3. This chapter should usually be reasonably short---a few pages perhaps.

Citation of References

One author

Ahamd (2007) developed this method of Subsequently other researchers have adopted this technique (Muhammad, 2009; Nadeem, 2010).

Two Authors



Ahmad and Nadeem (2008) developed the model of MSA Subsequently other researchers adopted this technique (Muhammad, 2009; Muhammad and Nadeem, 2014)

Multiple authors & more than one publication in a year

Wajid *et al.* (2013a) described genetic diversity....." (when given in sentence) and their modified protocol can be used to extract protein more efficiently (Wajid *et al.*, 2013b)" (while given in brackets)

Citing multiple references

When many authors are cited in sentence it is given as ".....Similar work was also reported by Nadeem and Waqar (2008); Nadeem *et al.* (2009); Muhammad (2011)....."

"Similar work was demonstrated for varied data set by many researchers (Nadeem and Waqar, 2008; Nadeem *et al.*, 2011; Muhammad, 2011)....."

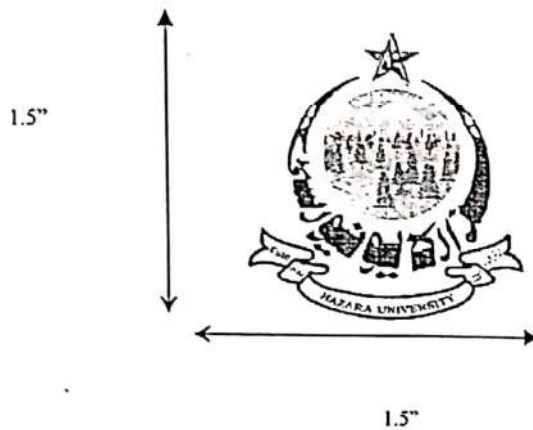
Listing of References

1. This section provides list of the literature that was cited in the text of the introduction and literature review.
2. Reference form Journal- author (s) name. Year of publication. Title. Abbreviated name of Journal No: Page from – page to. (e.g. Ahmad, H. and R. Ahmad .2003 Agroecology and phytography of swat valley. Nucleus, 4:67-75
3. Reference form Book- Author (s) name. Year of publication. Edn. Publisher. Page No. Ahmad, H. and A. A. Khan. 2004. Conservaton and sustainable uses of medicinal plant of Pakistan Ihsan printers Lahore e.g.)
4. Reference form Thesis- Name of author. Year of Publication. Thesis title. Deptt/Institution. Country. Hussain, A. 2013. Mitochondrial DNA HVSI region sequences analysis of Sayed Tribe. Department of Genetics, Hazara University Mansehra, Pakistan)
5. Note: - No website link should be placed as reference.



**MOLECULAR AND PHYTOCHEMICAL ELABORATION
OF THE TEA GENOTYPES GROWN IN PAKISTAN**

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Capital
Letter



Name
Roll No.

12 Bold
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CENTER FOR HUMAN GENETICS
HAZARA UNIVERSITY MANSEHRA
2014

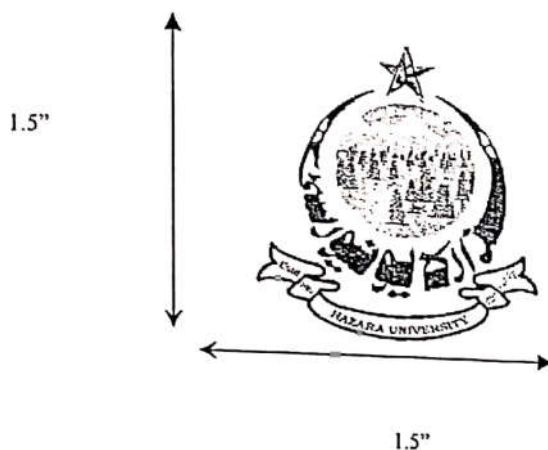
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MOLECULAR AND PHYTOCHEMICAL ELABORATION
OF THE TEA GENOTYPES GROWN IN PAKISTAN

Sample Sheet 2

14 Bold
Capital
Letter



12 Normal
Book Antiqua

Submitted By

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

Research Supervisor

L.M.N.
Designation _____

12 Bold Book
Antiqua

Co-supervisor (if any)

X.Y.Z.
Designation _____
(with work address and
affiliation)

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HAZARA UNIVERSITY MANSEHRA
2014

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Capital
Letter Book
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(The certificate is to be printed on the Institute Letter-Head)

CERTIFICATE

This is to certify that the thesis entitled [Title of the Thesis] submitted by [Name of the candidate] to the Hazra University Mansehra, Pakistan in partial fulfillment for the award of the degree of Doctor of Philosophy is a *bonafide* record of research work carried out by him/her under my/our supervision. The contents of this thesis, in full or in parts, have not been submitted to any other Institution or University for the award of any degree or diploma.

[Signature]
[Name of the supervisor]
Supervisor
Department of [Name of the department]
department]

[Signature]
[Name of the co-supervisor (if any)]
Co-Supervisor
Department of [Name of the

Hazara University Mansehra

Counter signature of Head with seal

[Month, year]



DECLARATION

I declare that the thesis entitled [Title of the Thesis] submitted in partial fulfillment of the degree of Doctor of Philosophy is a record of original work which I carried out under the supervision of [Name(s) of the Supervisor(s)], and has not formed the basis for the award of any other degree or diploma, in this or any other Institution or University. In keeping with the ethical practice in reporting scientific information, due acknowledgements have been made wherever the findings of others have been cited.

[Signature]
[Name of the candidate]