

**GUIDELINES TO THE FORMAT OF THESIS FOR
NATIONAL INSTITUTE OF TECHNOLOGY,
AGARTALA**



Name of Scholar

**NAME OF THE DEPARTMENT
NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA
INDIA
MONTH-20XX**

**GUIDELINES TO THE FORMAT OF THESIS FOR
NATIONAL INSTITUTE OF TECHNOLOGY,
AGARTALA**

*Thesis Submitted to the
National Institute of Technology, Agartala
for the award of the degree*

of

Doctor of Philosophy

by

Name of Scholar

Enrollment Number

Supervisor/s

Prof. G D

&

Prof. D P



**DEPARTMENT OF
NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA
INDIA
MONTH-20XX**

PhD
Thesis

GUIDELINES TO THE FORMAT OF THESIS FOR NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA

User Name



NIT
Agartala
2018

Dedicated to

**My
Mother,
and
Father,**

Approval

Date:.....

Certified that the thesis/dissertation/report entitled **GUIDELINES TO THE FORMAT OF THESIS FOR NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA** submitted by ***VD*** to the National Institute of Technology, Agartala, for the award of the degree Doctor of Philosophy has been accepted by the external examiners and that the scholar has successfully defended the thesis in the viva-voce examination. held today at National Institute of Technology, Agartala

Signature

Prof. S. R

(Member of the DC)

Signature

Prof. S. C

(Member of the DC)

Signature

Prof. J. D.

(Member of the DC)

Signature

Prof. G. L. D

(Supervisor)

Signature

Prof. D. K. P

(Supervisor)

Signature

Prof

(External Examiner)

Signature

Prof

(Chairman DC)

Declaration

I certify that

I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

Signature of the Student

Name of Scholar

Roll No.

Date

Certificate

This is to certify that the thesis entitled **GUIDELINES TO THE FORMAT OF THESIS FOR NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA**, submitted by **Name of Scholar** to National Institute of Technology, Agartala, is a record of bona fide research work, carried out under my/our supervision. I/we consider it worthy of consideration for the award of the degree of Doctor of Philosophy of the Institute.

Supervisor 1
Designation
Institute
Date

Supervisor 2
Designation
Institute
Date

Acknowledgments

I take the privilege to express my gratitude towards my supervisors, Last but not the least, I would like to express my sincere gratitude to all of them, who directly and indirectly helped me for the successful completion of my thesis work.

Name of Scholar
Name of Department
National Institute of Technology, Agartala
India

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List of Symbols & Abbreviations

Symbols

| | |
|----------|---|
| a | Constant of log-sigmoid function |
| a' | A value of modified membership function for data clustering |
| a_1 | Abscissa of 2^{nd} point on the bead profile |
| a_2 | Abscissa of 3^{rd} point on the bead profile |

Abstract

This is a state-of-the-art technology, which is used mostly in strategic and space-exploration industries. As a result, much remains still to be learnt about the process and technology.

Keywords: Radial Basis Function Neural Network; Forward and Reverse mappings.

Chapter 1

Organisation of Thesis/Dissertation/ Report

Utmost attention must be paid to the contents of the thesis/ dissertation/ report, which is being submitted in partial fulfillment of the requirements of the respective degree, it is imperative that a standard format be prescribed. Write up of the thesis may be prepared either in M.S. word or \LaTeX . The format of the **Provisional Thesis** and **Final Thesis** are same. The format provided shall be equally applicable for all PG and UG courses.

The \LaTeX format of the thesis for **NIT Agartala** (refer to Chapters **4 & 5**) has been prepared, with inspiration from the documentation and guidelines laid down, for the purpose, by IIT Kharagpur and IIT Madras.

This thesis shall be presented in a number of chapters, starting with Introduction and ending with Summary and Conclusions. Each of the other chapters will have a precise title reflecting the contents of the chapter. A chapter can be subdivided into sections, *subsections* and *subsubsection* so as to present the content discretely and with due emphasis.

1.1 Introduction

The title of **Chapter 1** of a thesis shall be Introduction. It shall justify and highlight the problem posed, define the topic and explain the aim and scope of the work presented in the thesis on the basis of the literatures cited. It may also highlight the significant contributions from the investigation.

1.2 Report of Present Investigation

The reporting on the investigation shall be presented in the next chapters with appropriate chapter title.

- Due importance shall be given to experimental setups, procedures adopted, techniques developed, methodologies developed and adopted.
- While important derivations/formula should normally be presented in the text of these chapters, extensive and long treatments, copious details and tedious information, detailed results in tabular and graphical forms may be presented in the Appendices. Representative data in table and figures may, however, be included in appropriate chapters.
- Figures and tables should be presented immediately following their first mention in the text. Short tables and figures (say, less than half the writing area of the page) should be presented within the text, while large table and figures may be presented on separate pages.
- Equations should form separate lines with appropriate paragraph separation above and below the equation line, with equation numbers flushed to the right. Equation number of all the Equation should be chapter wise. The number of Equations should follow right alignment.

1.3 Results and Discussions

This shall form the penultimate chapter of the thesis and shall include a thorough evaluation of the investigation carried out and bring out the contributions from the study. The discussion shall logically lead to inferences and conclusions as well as scope of possible further future work.

1.4 Summary and Conclusions

This will be the final chapter of the thesis. A brief report of the work carried out shall form the first part of the Chapter. Conclusions derived from the logical analysis presented in the Results and Discussions Chapter shall be presented and clearly enumerated, each point stated separately. Scope for future work should be stated lucidly in the last part of the chapter.

1.5 Appendix

Detailed information, lengthy derivations, raw experimental observations, etc. are to be presented in the separate appendices, which shall be numbered in Roman Capitals e.g. **Appendix A**.

1.6 Literature Cited

The list of references should appear at the end of the thesis marked as **Bibliography**. The references may be listed either alphabetically or sequentially as they appear in the text of the thesis. If pertinent works have been consulted, but not specifically cited, they should be listed as Bibliography or General References. Spacing and font size should be consistent inside a single reference, and there should be double spaced between two different references. The font size and line spacing of each reference shall follow the format of original write-up. The reference format of different category of references is given next **chapter**. \LaTeX users are advised to refer to **Chapter 5** of this document.

1.7 Publications by the candidate

Articles, technical notes, etc. on the topic of the thesis published by the candidate may be separately listed as **Publications of the Scholar**, after **Curriculum Vitae**. This may also be included in the contents.

The \LaTeX users are advised to use `publications.bib`, provided in the folder as mentioned in **Chapter 5**. Then, fill up the fields and compile.

Chapter 2

Guide to Bibliography

This document is an example of `natbib` package using in bibliography management. Users of MS Word may either import the bibliography style of `natbib` `unsrtnat` or may format the bibliography as is shown in the Bibliography section. Further details are available in **Chapter 5**.

There are Three items are cited:

- **Book:** *The L^AT_EX Companion* book [1]
- **Journal Paper:** Einstein journal paper [2]
- **Website:** the Donald Knuth's website [3]
- **Thesis:** A Thesis has been referred to establish [4]
- **Conference Proceedings:** Any conference proceedings may be referred and cited as [5]
- **Miscellaneous:** In case only a website is to be referred then [6]

The L^AT_EX Companion book [1], the Einstein journal paper [2], and the Donald Knuth's website [3]. The L^AT_EX related items are [1, 3].

Chapter 3

Thesis Format

3.1 Paper quality

The thesis shall be printed/ photocopied on white bond paper, whiteness 95

3.2 Paper size

The size of the paper shall be standard A 4; height 297 mm, width 210 mm.

3.3 Type Setting, Text Processing and Printing

The text shall be printed employing laser jet or Inkjet printer, the text having been processed using a standard text processor. The standard font shall be **Times New Roman** of **12 pts** with **1.5 line** spacing.

3.3.1 Left and Right Margins

The candidates shall have to take double sided printing with mirrored left (38 mm) and right (25 mm) margin.

3.3.2 Header

) The header must have the Chapter number and Section number (e.g., Chapter 2, Section 3) on even numbered page headers and Chapter title or Section title on the odd numbered page header.

3.3.3 Paragraph

Vertical space between paragraphs shall be about 2.5 line spacing. The first line of each paragraph should normally be indented by five characters or 12mm. A candidate may, however, choose not to indent if (s)he has provided sufficient paragraph separation. A paragraph should normally comprise more than one line. A single line of a paragraph shall not be left at the top or bottom of a page (i.e., no windows or orphans should be left).

3.4 Chapter and Section format

3.4.1 Chapter

Each chapter shall begin

- On a fresh odd number page with an additional top margin of about 75mm. Chapter number (in Arabic) and title shall be printed at the center of the line in 6mm font size (18pt) in bold face using upper case alphabets).
- A vertical gap of about 25mm shall be left between the Chapter number and Chapter title lines and between chapter title line and the first paragraph.

3.4.2 Sections and Subsections

A chapter can be divided into Sections, Subsections and Subsubsections so as to present different concepts separately. Sections and subsections can be numbered using decimal points, e.g. 2.2 for the second section in Chapter 2 and 2.3.4 for the fourth Subsection in the third Section of Chapter 2. **Chapters, Sections and Subsections** shall be included in the contents

with page numbers flushed to the right. Further subsections need not be numbered or included in the contents.

The Section and Subsection titles along with their numbers in 5 and 4mm (16 and 14 pt) fonts, respectively, in bold face shall be flushed to the left (not centered) with 12 point and 6 point spacing respectively above and below these lines. In further subdivisions character size of 3 and 3.5 with bold face, small caps, all caps and italics may be used for the titles flushed left or centered. These shall not feature in the contents.

3.4.3 Table / Figure Format

As far as possible tables and figures should be presented in portrait style. Small size table and figures (less than half of writing area of a page) should be incorporated within the text, while larger ones may be presented on separate pages. Table and figures shall be numbered chapter wise.

For example, the fourth figure in chapter 5 will bear the number Figure 5.4 or Fig 5.4. Table number and title will be placed above the table while the figure number and caption will be located below the figure. Reference to Table and Figures reproduced from elsewhere shall be cited at the end. A separate line in the table and figure caption, e.g. (after McGregor[12]).

3.4.4 Non-paper Material

Digital or magnetic materials, such as CDs and DVDs may be included in the thesis. They have to be given in a closed pocket on the back cover page of the thesis. It should be borne in mind that their formats may become obsolete due to rapid change in technology, making it impossible for the Central Library to guarantee their preservation and use.

All the non-paper materials must have a label each indicating the name of the thesis, name of the student and the date of submission.

Chapter 4

Auxiliary Format

This section provides general information regarding the format of Thesis for NIT Agartala. The users of $\text{\LaTeX} 2_{\epsilon}$ will be able to generate the formats, mentioned here, with help of the latex file **thesis-NITA.tex** and other **tex files** available in the folder `Thesis-NITA-2018` at the institute **MIS home page**. The information provided are worth for users of **MS Word**. Samples of various formats for MS word users are provided in the Appendix.

4.1 Binding

The evaluation copies of the thesis/dissertation/report may be spiral bound or soft bound. The final hard bound copies to be submitted after the viva-voce examination. They have to be hard-bounded with the following color specifications:

- Ph.D. Thesis Dark Blue [RGB (0,0,139)]
- M.Tech./ MT(Engg Physics) Dissertation Black
- B.Tech./B.T.(Engg Physics)/BSMS/M.Sc. Project Report Saddle brown[RGB (139,69,19)]

4.2 Front and Side Covers

The front cover shall contain the following details:

- Full title of thesis in **18 to 22** point's size font (bold) properly centered and positioned at a distance of **25 cm** from the top.
- Institute emblem of size 2 height should be placed at the centre of the front cover page.
- Name of candidate (in *Italic*) along with the name of Department, Institute, Year is in **12 to 16-point** size, bold shall be placed at a distance of 25 cm from the bottom.

\LaTeX users need to edit the **cover.tex**.

The side cover shall contain the following details: Name of degree along with name of thesis and candidates name is to be provided at the closed side of the bounded book. \LaTeX users need to edit the **side.tex**. Following Sample copies are appended

- **Front Cover: Specimen A**
- **Side Cover: Specimen B**

4.2.1 Lettering in Front Cover and Side Cover

All lettering shall be embossed in silver.

4.3 Blank Sheets

In addition to the white sheets (binding requirement) two white sheets shall be put at the beginning and the end of the thesis.

4.4 Title Sheet

This shall be the first printed page of the thesis and shall contain the submission statement: the Thesis/Dissertation/project Report submitted in partial fulfillment of the requirements of the Degree, Ph.D. /M.Tech./B.Tech./M.Sc., the name and Roll No. of the candidate, name(s) of the Supervisor and Co-supervisor (s) (if any), Department, Institute and year of submission.

A sample copy of the 'Title Sheet' is appended **Specimen C**. \LaTeX users need to edit the **title.tex**

4.5 Dedication Sheet

The dedication sheet and the thought (or Idea) sheet are auxiliary pages. If the candidate so desires (s)he may dedicate his/her thesis, which statement shall follow the title page. If included, this shall form the page i of the auxiliary sheets, but shall not have a page number. If the candidate so desires (s)he may incorporate one thought (or idea) sheet which follow the dedication sheet. \LaTeX users need to edit the **dedi.tex**

4.6 Approval Sheet

In the absence of a dedication sheet this will form the first page and in that case shall not have a page number. Otherwise, this will bear the number two in Roman lower case ii at the center of the footer. \LaTeX users need to edit the **approval.tex**.

The top line shall be:

1. Thesis Approval for Ph.D
2. Dissertation Approval for M.Tech\MCA\MBA
3. Report Approval for B.Tech\B.S.\M.Sc.

The **Approval Sheets** are to be **included only** in the hard bound copies which are submitted after the **successful** Ph.D. viva-voce examination.

A sample copy of the Approval Sheet is appended in **Specimen D**

4.7 Declaration of Academic Honesty and Integrity

A declaration of Academic honesty and integrity is required to be included along with every thesis/dissertation/report after the approval sheet. The format of this declaration is appended in **Specimen E**. \LaTeX users need to edit the **declaration.tex**.

4.8 Certificate

A certificate is obtained from supervisor/supervisor (s) is to be enclosed. The format of this certificate is given in **Specimen F** attached. \LaTeX Users need to edit the **cert.tex**.

4.9 Acknowledgment and Curriculum Vitae

The Candidate should one or two pages **Acknowledgment** and one page **Curriculum Vitae**. Curriculum Vitae is to be given at the last of the thesis after Appendices. \LaTeX Users need to edit the **acknowledgment.tex** & \LaTeX Users need to edit the **cv.tex**.

4.10 Contents

The contents shall enlist the titles of the chapters, section and subsection using decimal notation, as in the text, with corresponding page numbers against them, flushed to the right. The format of the contents is given in **Specimen G** attached. For \LaTeX User **Contents** will be auto generated.

4.11 List of Figures and List of Tables

Two separate lists of Figure captions and Table titles along with their numbers and corresponding page numbers against them shall follow the Contents. After that the list of symbols as used in the thesis is to be given. For \LaTeX Users **List of Figures** & **List of Tables** will be auto generated.

4.12 Symbols, Abbreviation and Notation

A complete and comprehensive list of all symbols, abbreviations and notations including Greek alphabets with subscripts and superscripts shall be provided after the list of figures and tables. (As far as possible, generally accepted symbols and notation should be used). \LaTeX Users need to edit the **nomen.tex**.

4.13 Abstract

A M Tech thesis should contain an abstract not exceeding 300 words (about one page), and a Ph.D. thesis should contain an abstract/synopsis not exceeding 500 words (about one and half pages) in **single spacing**. The abstract shall highlight the important features of the thesis/ dissertation/report and shall correspond to the electronic version to be submitted to the Library for inclusion in the website. The Abstract in the thesis, however, shall have two more parts, namely, the layout of the thesis giving a brief chapter wise description of the work and the key words. \LaTeX users need to edit the **abst.tex**.

4.14 Units

The units used in the thesis should be SI units.

4.15 Pagination

An auxiliary page from dedication (if any) to abbreviations shall be numbered using Roman numerals in lower case.

Page numbers for the body of the thesis should be in Arabic numerals and should be centered at the bottom of the pages. The pagination should start with the first page of Chapter 1 and should continue throughout the text (including tables, figures, and appendices).

Chapter 5

Introduction to L^AT_EX

This document provides information about the use of L^AT_EX in thesis/dissertation/report writing for NIT Agartala.

All the required files are bundled into a folder `Thesis-NITA-2018`. The folder is available at the homepage of the MIS of the institute. The thesis/dissertation/report is generated with help of a **modified** `report.cls`. The thesis will be generated (double sided pages) by compiling the `thesis-NITA.tex` file. This document provides several useful tips to use L^AT_EX, when you write your thesis.

Before reading any further please note that you are strongly advised against changing any of the formatting options used in the class provided in this directory, unless you are absolutely sure that it does not violate the NITA formatting guidelines. *Please do not change the margins or the spacing.*

It is also a good idea to take a quick look at the formatting guidelines. Your office or advisor should have a copy. If they don't, pester them, they really should have the formatting guidelines readily available somewhere.

To compile the L^AT_EX program windows users may be advised to download and install either **TexLive** or **TeXstudio** and **MikTeX**

5.1 Example Figures and tables

Fig. 5.1 shows a simple figure for illustration along with a long caption. The formatting of the caption text is automatically single spaced and indented. Table 5.1 shows a sample table with the caption placed correctly. The caption for this should always be placed before the table as shown in the example.



Figure 5.1: Two NITA logos in a row. This is also an illustration of a very long figure caption that wraps around two two lines. Notice that the caption is single-spaced.

Table 5.1: A sample table with a table caption placed appropriately. This caption is also very long and is single-spaced. Also notice how the text is aligned.

| x | x^2 |
|-----|-------|
| 1 | 1 |
| 2 | 4 |
| 3 | 9 |
| 4 | 16 |
| 5 | 25 |
| 6 | 36 |
| 7 | 49 |
| 8 | 64 |

5.2 Bibliography with BIB_TE_X

We recommend that you use BIB_TE_X to automatically generate your bibliography. It makes managing your references much easier. It is an excellent way to organize your references and reuse them. You can use one set of entries for your references and cite them in your thesis,

papers and reports. If you haven't used it anytime before please invest some time learning how to use it.

A simple example BIB_TE_X file along in this directory called `sample.bib` is included in the folder. The `thesis-NITA.tex` uses `natbib` in this thesis to format the references along with a customized bibliography style called `unsrnat`.

Documentation for the `natbib` package should be available in your distribution of L^AT_EX. Basically, to cite the author along with the author name and year use `\cite{key}` where `key` is the citation key for your bibliography entry. You can also use `\citet{key}` to get the same effect. To make the citation without the author name in the main text but inside the parenthesis use `\citep{key}`. The following paragraph shows how citations can be used in text effectively.

5.3 Other useful L^AT_EX packages

The following packages might be useful when writing your thesis.

- It is very useful to include line numbers in your document. That way, it is very easy for people to suggest corrections to your text. It is recommend the use of the `lineno` package for this purpose. This is not a standard package but can be obtained on the internet. The directory containing this file should contain a `lineno` directory that includes the package along with documentation for it.
- The `listings` package should be available with your distribution of L^AT_EX. This package is very useful when one needs to list source code or pseudo-code.
- For special figure captions the `ccaption` package may be useful. This is specially useful if one has a figure that spans more than two pages and you need to use the same figure number.
- The notation page can be entered manually or automatically generated using the `nomencl` package.

More details on how to use these specific packages are available along with the documentation of the respective packages.

Bibliography

- [1] Michel Goossens, Frank Mittelbach, and Alexander Samarin. *The L^AT_EX Companion*. Addison-Wesley, Reading, Massachusetts, 1993.
- [2] Albert Einstein. Zur Elektrodynamik bewegter Körper. (German) [On the electrodynamics of moving bodies]. *Annalen der Physik*, 322(10):891–921, 1905. doi: <http://dx.doi.org/10.1002/andp.19053221004>.
- [3] Donald Knuth. Knuth: Computers and typesetting. URL <http://www-cs-faculty.stanford.edu/~{ }uno/abcde.html>.
- [4] Prabhu Ramachandran. *L^AT_EX class for dissertations submitted to IIT-M*. PhD thesis, Department of Aerospace Engineering, IIT-Madras, Chennai – 600036, July 2004.
- [5] Prabhu Ramachandran. MayaVi: A free tool for CFD data visualization. In *4th Annual CFD Symposium*. Aeronautical Society of India, August 2001. Software available at: <http://mayavi.sf.net>.
- [6] Guido van Rossum et al. The Python programming language, 1991–. URL <http://www.python.org/>.

Appendix A

Specimen of the format of Ph.D. thesis for MS Word users

TITLE OF THE THESIS

(The title is in Times New Roman Font with 18 to 22-point size, Bold, one-and-a-half line spacing)



(Height of the Institute Emblem at the front cover page is 2” placed at the centre of the page)

Name of Candidate

**NAME OF THE
DEPARTMENT/SCHOOL/INTERDISCIPLINARY
PROGRAMME
NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA
INDIA**

(Name of candidate (in Italic) along with the name of Department, Institute, Year is in Times New Roman Font with 12 to 16-point size, bold)

Specimen B

Font size and size of LOGO in Specimen B may vary depending on the thickness of LOGO

*Ph. D/
M. Tech
Thesis*

Title of the Thesis

Name of Candidate

**(1.5” vertical gap is to be kept in between Name of candidate and Institute LOGO
for Library use)**



**NIT
Agartala**

year

THE TITLE OF THE THESIS IN THE SECOND PAGE SHALL
LOOK EXACTLY LIKE THIS TITLE

(4 lines gap) - 'Times New Roman' – 12-point size – Bold – Italics - centered

Thesis submitted to
National Institute of Technology, Agartala
for the award of the degree

(1 line gap) - 'Times New Roman' – 12-point size – Bold – Italics – centered

of
(1 line gap) - 'Times New Roman' – 14-point size – Bold - centered

Doctor of Philosophy

(1 line gap) - 'Times New Roman' – 12-point size – Bold – Italics - centered

by
(1 line gap) - 'Times New Roman' – 14-point size – Bold - centered
Name of Candidate (Enrolment No:_____)

(1 line gap) – 'Times New Roman' – 12-point size – centered

(1 line gap) - 'Times New Roman' – 14-point size – Bold - centered
(Enrolment No:_____)

(2 lines gap) - 'Times New Roman' – 12-point size – centered
Name of Supervisor

(2 lines gap) - 'Times New Roman' – 12-point size – centered
Name of Supervisor

(1 line gap) – 'Times New Roman' – 12-point size – Bold – centered



(Height of the Institute Emblem is 1" to be placed at that position)

(1 line gap) - 'Times New Roman' – 14-point size – Bold - centered

NAME OF DEPARTMENT

NAME OF INSTITUTE

MONTH- YEAR

Approval

Certified that the thesis/dissertation/report entitled **THESIS FORMAT OF NATIONAL INSTITUTE OF TECHNOLOGY, AGARTALA** submitted by *NAME* to the National Institute of Technology, Agartala, for the award of the degree Doctor of Philosophy has been accepted by the external examiners and that the scholar has successfully defended the thesis in the viva-voce examination held today.

Signature

Prof 1

Member of DC

Signature

Prof 1

Member of DC

Signature

Prof 1

Member of DC

Signature

Prof 1

Member of DC

Signature

Prof 2

Member of DC

Signature

Prof 3

External Examiner

Signature

Prof 4

Chairman DC

Declaration

I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

(Signature)

Name of the student

Roll No.

Date: _____

Certificate

This to certify that the thesis entitled **THESIS FORMAT OF NATIONAL INSTITUTE OF TECHNOLOGY**, submitted by **Name of the Scholar** to National Institute of Technology, Agartala is a bonafide research work, carried out under my/our suppression. I/We consider it worthy of consideration for the award of the degree of Doctor of Philosophy of the Institute.

Signature of Supervisor

Name

Department(s)

N.I.T. Agartala

Month, Year

Signature of Supervisor

Name

Department(s)

N.I.T. Agartala

Month, Year

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Curriculum Vitae

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Publicatons of the Scholar

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