### Suggested format for preparation of Minor/Thesis Report for Bachelor of Engineering

1. **Arrangement of Contents:**
   * Cover page (Appendix – I)
   * Title page (same as cover page)
   * Declaration by the candidate (Appendix – II)
   * Certificate of the supervisor (Appendix – III)
   * Certificate by the examiners (Appendix – IV)
   * Acknowledgement from students (Appendix – V)
   * Abstract
   * List of symbols
   * List of abbreviations
   * List of tables
   * List of figures
   * Table of contents (Appendix – VI)

### Description of the work (to be divided into following chapters)

Chapter – I : Introduction

Chapter – II : Literature Review Review of Literature Chapter III : Problem Identification It may be Theoretical

Analysis/Consideration as the case may be

Chapter – IV : Methodology, Could be Methods and Materials Chapter – V : Results & Discussions

Chapter – VI : Conclusion & Scope of further work References

Appendix

### Report dimension & Binding specifications:

The dimension of the thesis report should be in A4 size and must be hard bound with a plastic jacket. It is suggested that the printing of cover page should be in contrast to the background colour of the cover page. The colour of the cover page should be same for a particular branch in an Institution.

### Paper & typing dimension

Milk White papers which do not deteriorate rapidly are to be used. The paper must be with uniformly even edges. Photocopies should be on copy bond available at most reproduction centers. The report should be typed in one side of the paper only. Whole of the report (except the cover and title page) should be typed in Times New Roman Font with a font size of 12, justified and a line spacing of 1.5. Left margin 3 cm, Right margin

2 cm, top margin 2.5 cm and bottom margin 2.5 cm to be maintained. In case of mathematical expressions Equation editor is to be used. Each chapter should start at a fresh page with a heading of the chapter (Appendix – VII**).**

### Pagination

Each page must have a number designation, though numbers may be left off the title page and pages of chapter headings if the student prefers. All pages must be numbered consecutively as follows:

* + Lower-case Roman numerals (i.e., i, ii, iii, iv, v, vi, etc.) are to be used for preliminary pages. The numerals should appear at the right bottom of the page, approximately 1 cm above the bottom edge.
  + Arabic numerals (i.e., l, 2, 3, 4, 5, 6, etc.) are used for the body of the thesis/project. The numerals appear in the right bottom corner of the page, approximately 1 cm up from the bottom edge and 1 cm in from the right edge.
  + Material inserted after final typing should be numbered as in this example: 21, 21a, 21b, etc. This expedient should be used sparingly.
  + Appendices and the references should be numbered consecutively with the rest of the thesis.

### Caption of figure & tables

Caption of figures and tables should be provided at the bottom of the table and diagram and caption of tables should be provided at the top of the table. Captions should be bold Italicized and should be at the center. Figure and table numbers should be in tune with the chapter numbers (e.g. the first figure of chapter I should be numbered as Fig. 1.1, first figure of chapter 2 should be numbered as Fig. 2.1 and so on.)

1. **References (**Appendix – VIII**)**

### Guard Sheets

A blank white page (Preferably thick) must be placed at the beginning and end of the report.

**Leaf Disease Detection Using Python**

## A Minor Report submitted to

**CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY BHILAI (C.G.), India**

*In partial fulfillment*

***For the award of the Degree of***

# Bachelor of Technology

# in

# Electronics And Telecommunication Engineering

By

**Harsh Thakur**

### Under the Guidance of

**Dr. Hemlata Sinha**

**Head Of The Department**

**Department Of Electronics And Telecommunication**

**SSIPMT Raipur**



**SHRI SHANKARACHARYA INSTITUTE OF PROFESSIONAL MANAGEMENT AND TECHNOLOGY,**

**RAIPUR (C.G)**

SESSION- 2019-23

## D E C L A R A T I O N BY THE CANDIDATE

I the undersigned solemnly declare that the minor report of the project work entitled “**LEAF DISEASE DETECTION USING PYTHON**” is based on my own work carried out during the course of my study under the supervision of Head Of ET&T Department **Dr. Hemlata Sinha.**

I assert that the statements made and conclusions drawn are an outcome of the project work. I further declare that to the best of my knowledge and belief that the report does not contain any part of any work which has been submitted for the award of any other degree in this University.

Harsh Thakur

B.Tech. VII Sem.(ET&T)

Roll No.: 303302819027

Enrollment No.: BH3724

### Signature of the Supervisor

### Dr. HEMLATA SINHA

### Head Of The Department

### Electronics And

### Telecommunication

SSIPMT, Raipur

Appendix - III

## C E R T I F I C A T E OF THE SUPERVISOR

This is to certify that the minor report of the project entitled “ LEAF DISEASE DETECTION USING PYTHON” is a record of bonafide research work carried out by Harsh Thakur bearing Roll No.: 303302819027 & Enrollment No. BH3724 under my guidance and supervision for the award of Degree of Bachelor of Technology in the faculty of Dr. Hemlata Sinha , of Chhattisgarh Swami Vivekanand Technical University, Bhilai (C.G.), India.

To the best of my knowledge and belief the thesis

* Embodies the work of the candidate himself,
* Has duly been completed,
* Fulfills the requirement of the Ordinance relating to the B.Tech. degree of the University and
* Is up to the desired standard both in respect of contents and language for

being referred to the examiners.

(Signature of the Supervisor) Name: Dr. Hemlata Sinha

Designation:Head Of The Department Department:

Name & Address of the Institute/Organization

Forwarded to Chhattisgarh Swami Vivekanand Technical University Bhilai

(Signature of the Director/Principal) Name & address of the Institute

Appendix – IV

## CERTIFICATE BY THE EXAMINERS

The Minor Report/Thesis entitled <*Title of the thesis*> Submitted by <*Name of the student*>

(Roll No.: ……….. Enrollment No ) has been examined by the

undersigned as a part of the examination and is hereby recommended for the award of the degree of Bachelor of Engineering/Technology in the faculty of <*Name of the Faculty*> of Chhattisgarh Swami Vivekanand Technical University, Bhilai.

Internal Examiner External Examiner

Date: Date:

# ACKNOWLEDGEMENT

Appendix –

*< Body of the text should be properly paragraphed. The text should be typed in Times New Roman Font, Justified line spacing 1.5 and font size 12>*

(Signature of the

student) Name:

Name & Address of the Institute

# Table of Contents

Appendix –

|  |  |  |
| --- | --- | --- |
| **Chapter** | **Title** | **Page No.** |
| I | Introduction | 1 |
| II | Literature Review Review of Literature   * 1. Sub article      1. Sub-Sub article | X |
| III | Problem Identification   * 1. Sub article      1. Sub-Sub article | Y |
| IV | Methodology   * 1. Sub article      1. Sub-Sub article | Z |
| V | Results & Discussions   * 1. Sub article      1. Sub-Sub article | P |
| VI | Conclusion & Scope of further work   * 1. Sub article      1. Sub-Sub article | Q |

# List of Tables List of Figures

**List of Abbreviations**

References Appendix

Appendix – VII

***Chapter – I Introduction***

Appendix – VIII

# REFERENCES

*(all references should be cited in the text of the thesis)*

Books:

[Sl. No.] <Author>, <“Title of the Book”>, <Name of Publisher>, <Place of Publication>,

<Edition No.>, <Year of Publication>, <Chapter No.>, <Page No.>

Periodicals:

[Sl. No.] <Author/s>, <“Title of the research paper”>, <Name of the Journal>, <Vol. >,

<No./Month of publication>, <pp. >, <Year>

Books:

[Sl. No.] <Author>, <“Title of the Book”>, <Year of Publication>, <Name of Publisher>,

<Place of Publication>, <Edition No.>, <Chapter No.>, <Page No.>

Periodicals:

[Sl. No.] <Author/s> . <Year>. <“Title of the research paper”>, <Name of the Journal>,

<Vol. >, <No./, <page >,

Examples:

Books

Mal, B.C. 1995. Introduction to Soil and Water conservation Engineering. Kalyani Publishers, New Delhi.. First Ed. Ch 16, pp 403-406.

Periodicals

Mal, B. **C.** 1991. Optimum Spacing of Tubewells in Relation to Channel Losses and Lining. J. ASCE, Irrigation and Drainage Div. 117 (5): 791-799.

Moulick, S and Mal, B. C. 2009. Performance Evaluation of Double Hub Paddle Wheel Aerator. Journal of Environmental Engng, ASCE 135(7): 562-566.

Pandey, A., Chowdary, V.M., Mal, B.C**.** and Billib, M. 2009. Application of the WEPP Model for Prioritization and Evaluation of Best Management Practices in an Indian Watershed. Hydrological Processes. 23: 2997-3005.

Website: [http://www.gobbeldygook.co.uk](http://www.gobbeldygook.co.uk/)

Magazines: