* All the students of final year B.Tech, are required to follow these guidelines enclosed, scrupulously.
* Any deviation from this in whatever form, shall not be accepted. Such deviation will force you to resubmit your project thesis.
* *Read the instructions thoroughly before you start writing the project thesis.*
* *It is the responsibility of each one of you in the batch to see that the work completed is presented in a neat, logical, lucid and coherent way.*
* **The Candidate shall supply a typed copy of the manuscript to the guide for the purpose of approval.**
* **Without prior approval of the concerned guide, the submission is not allowed.**
* Submit the rough draft and get it approved positively as announced by the in charge faculty, after which date your guides may not sign this document.
* Also please note that the write up shall present your understanding of the project and must include the discussion of all the references you have made. Such presentations must be only in third person and shall not be in first and second persons.

(A Typical Specimen of Title page)

# < TITLE>

## A PROJECT REPORT

## Submitted in partial fulfillment of requirements to

### 

### RGUKT-SRIKAKULAM

## 

## For the award of the degree

### B.Tech in CSE

#### By

<Name>

<Student ID.>

<College Emblem>

**Department of Computer Science and Engineering,**

##### RGUKT-SRIKAKULAM, ETCHERLA.

**April 2023**

1. **GENERAL:**

The manual is intended to provide broad guidelines to the B.Tech candidates in the preparation of the project. In general, the project shall report, in an organized and scholarly fashion, an account of original research work of the project team leading to the discovery of new facts or techniques or correction of facts already known (analytical, experimental, hardware oriented etc.)

1. **NUMBER OF COPIES TO BE SUBMITTED:**  ONLY ONE copy for the department / guide/college library

**3. ARRANGEMENT OF CONTENTS OF PROJECT:**

The sequence in which the project material should be arranged and bound should be as follows:

1. Title page
2. Certificate from Organization where the Project Work done
3. Bona fide Certificate
4. Abstract
5. Acknowledgement
6. Table of Contents
7. List of Tables
8. List of Figures
9. List of Symbols, Abbreviations or Nomenclature (Optional)
10. Chapters
11. Appendices
12. References

The Tables and Figures shall be introduced in the appropriate places.

**4. PAGE DIMENSIONS AND MARGIN:**

The dimensions of the project report should be 290mm X 205mm. Standard A4 size (297mmX21 0mm) paper may be used for preparing the copies.

The final project copy (at the time of submission) should have the following page margins:

Top edge : 30 to 35 mm

Bottom edge : 25 to 30mm

Left side : 35 to 40 mm

Right side : 20 to 25 mm

The project should be prepared on good quality white paper preferably not lower than 80gms/Sq.Meter.

Tables and figures should conform to the margin specifications. Large size figures should be photographically or otherwise reduced to the appropriate size before insertion.

**5 . MANUSCRIPT PREPARATION:**

**The Candidate shall supply a typed copy of the manuscript to the guide for the purpose of approval.** In the preparation of the manuscript, care should be taken to ensure that all textual matter is typewritten to the extent possible in the same format as may be required for the final project.

The headings of all items 2 to 12 listed in section 3 should be typed in capital letters without punctuation and centered 50mm below the top of the page. The text should commence 4 spaces below this heading. The page numbering for all items 1 to 8 should be done using lower case Roman numerals and the pages thereafter should be numbered using Arabic numerals.

**5.1 Title page** - A specimen copy of the title page for B.Tech. Project is given already.

**5.2 Certificate** **from Organization where the Project Work done**

**5.3 Bona fide Certificate** - using double spacing for typing the Certificate should be in this format:

Certified that this project work titled …………………………………….. is the bona fide work of Mr./Ms ……………………………. who carried out the work under my supervision, and submitted in partial fulfillment of the requirements for the award of the degree, BACHELOR OF TECHNOLOGY, during the year 2022 - 2023.

<xxxxxxxxxxxxx> <xxxxxxxxxxxxx>

# <Name of the Guide> (Name of the HOD)

<Designation> Head of the Department

The certificate to be countersigned by the HOD.

**5.4 Abstract** - Abstract should be an essay type of narrative not exceeding 600 words, outlining the problem, the methodology used for tackling it and a summary of the findings.

**5.5 Acknowledgement** - It should be brief and should not exceed one page when typed double spacing.

**5.6 Table of Contents** - The table of contents should list all material following it as well as any material which precedes it. The title page, Bonafide Certificate and Acknowledgement will not find a place among the items listed in the Table or Contents but the page numbers of which are in lower case Roman letters. One and half spacing should be adopted for typing the matter under this head.

**5.7 List of Tables** - The list should use exactly the same captions as they appear above the tables in the text. One and a half spacing should be adopted for typing the matter under this head.

**5.8 List of Figures** - The list use exactly the same captions as they appear below the figures in the text. One and a half spacing should be adopted for typing the matter under this head.

**5.9 List of Symbols** - Abbreviations and Nomenclature (Optional) - One and half spacing should be adopted for typing the matter under this head. Standard symbols, abbreviations etc. should be used.

**5.10 Chapters** - The chapters may be broadly divided Into 3 parts (i) Introductory chapter I (ii) Chapters developing the main theme of project, (iii) Results, Discussion, Conclusion and Future work.

The main text will be divided into several chapters and each chapter may be further divided into several divisions and sub divisions.

* Each chapter should be given an appropriate title.
* Tables and figures in a chapter should be placed in the immediate vicinity of the reference v/here they are cited.
* Footnotes should be used sparingly. They should be typed single space and placed directly underneath in the very same page which refers to the material they annotate.

**5.11 Appendices** - Appendices are provided to give supplementary information, which if included in the main text may serve as a distraction and cloud the central theme under discussion.

* Appendices should be numbered using Arabic numerals, e.g. Appendix 1, Appendix2, etc.
* Appendices, Tables and references appearing in appendices should be numbered and referred to at appropriate places just as in the case of chapters.

**5.12 List of References** – Includes the details of any works of other researchers that are used either directly or indirectly. The origin of the material thus referred to at appropriate places in the project should be indicated. A paper, a monograph or a book may be designated by the name of the first author followed by the year of publication, placed inside brackets at the appropriate places in the project should be indicated. A paper, a monogram or a book may be designated by the name of the first author followed by the year of publication, placed inside brackets at the appropriate place of reference. The citation may assume anyone of the following forms.

Examples of citation

i) A improved algorithm has been adopted in literature (Tsychiya 1980)

ii) Jankins and Walts (1968) have dealt at length this principle.

iii) The problem of mechanical manipulators has been studied by shin et al(1984) and certain limitations of the method used, has been pointed out by Shin et al (1984 a).

The listing should be typed 4 spaces below the heading "REFERENCES" in alphabetical order in single spacing left justified. The reference material should be listed in the alphabetical order of the first author. The name of author/ authors should be immediately followed by the year and other details. A typical illustrative list given below relates to the citation example quoted above.

## REFERENCES

1. Ariponnammal S. and Natrajan S. (1984) "Transport Phonomena of Sm Se1x Asx" Pramana - Journal of Physics Vol. 42 No.5 pp.421-425
2. Barnard R.W. and Kellogg C. (1980) "Applications of Convolution operators to

Problems in univalent function theory. Michign Mach. J., Vol 27, pp 81-94

1. Shin K.G.and Mcckay N.D. (1984) "Open loop minimum time control of mechanical

manupulations and its applications", Proc. Amer. Contr.Conf., San Diego, CA, pp.

1213-1236.

4. Janklns G.M. and Walts D.G. (1968), Spectral Analysis and its Applications" Holder day, Sanfrancisco. .

**5.13 Tables and Figures -** By the word table. It Is meant tabulated numerical data in the body of the project as well as in the appendices. All other non verbal material used in the body of the project and appendices such as Charts, graphs, maps, photographs and diagrams may be designed as figures.

* A table or figure including caption should be accommodated within the prescribed margin limits and appear on the page following the page where their first reference is made.
* Tables and figures on half page or less in length may appear on the same page along with the text. However, they should be separated from the text both above and below by triple spacing.
* All tables and figures should be prepared on the same paper or material used for the preparation of the rest of the project.
* For preparing captions, numerals, symbols or characters in the case of tables or figures, the computer should be used.
* Two or more small tables or figures may be grouped if necessary in single page.
* Wherever possible, the entire photograph(s) may be reproduced on full sheet of photographic paper.
* Photographs if any should be included in the colour xerox form only. More than one photograph can be included in a page.

**6. TYPING INSRUCTIONS**

**6.1 General**

This section includes additional information for final typing of the project. Some information given earlier under "Manuscript preparation" shall also be referred.

Thc impression on the typed/duplicated/printed copies should be black in colour.

If Computer printers are used uniformly of the font shall be observed.

Certain symbols, characters or markings not found on a standard typewriter may be hand written using Indian Ink or a Stylus pen (in case of stencil sheets are used). Corrections, interlineations and crossing out of letters or words will not be permitted in any of the copies of the project intended for submission. Erasures, if made, should be neatly carried out in all copies.

A sub-heading at the bottom of a page must have at least two full lines below it or else it should be carried over to the next page.

The last word of any page should not be split using a hyphen. One and half spacing should be used for typing the general text. Single spacing should be used for typing.

i) Long Tables

ii) Long quotations

iii) Foot notes

iv) Multi line captions

v) References

All quotations exceeding one line should bc typed in an indented. space the indentation being 155mm from either margins.

Double spacing should be used for typing the Bona fide Certificate and Acknowledgement.

**6.2 Chapters**

The format for typing chapter headings, division headings, sub division headings are explained through the following examples.

Chapter heading : CHAPTER 1

INTRODUCTION

Division heading : 1.1 OUTLINE OF PROJECT

Sub-division heading: 1.1.2.Literature review

The word CHAPTER without punctuation should be centred 50mm down from the top of the page. Two spaces below, the title of the chapter should be typed centrally in capital letters. The text should commence 4 spaces below this title, the first letter of the text starting 20mm, inside from the left hand margin.

The division and sub-division captions along with their numberings should be left justified, The typed material directly below it and should be offset 20mm from the left hand margin. Even paragraph should commence 3 spaces below the last line of the preceding paragraph, the first letter in the paragraph being offset from the left hand margin by 20 mm.

**7. NUMBERING INSTRUCTIONS**

**7.1 Page Numbering**

All Pages numbers (whether it be in Roman or Arabic numbers) should be typed without punctuation on the upper right hand corner 20mm from top with last digit line with the right hand margin. The preliminary pages of the project (such as Title page, Acknowledgement, Title of contents etc.) should be numbered in lower case Roman numerals. The title page will be numbered as (i) but this should not be typed, The page immediately following the title page shall be numbered (ii) and it should appear at the top right corner as already specified. Pages of main text, starting with Chapter 1 should be consecutively numbered using Arabic numerals.

**7.2 Numbering of Chapters, Divisions and Subdivisions**

The numbering of Chapters, divisions and subdivisions should be done using Arabic numerals only and further decimal notation should be used for numbering the divisions and subdivisions with in achapter. For example sub division 4 under division 3 belonging to chapter 2 should be numbered as 2:3.4. The caption for the sub division should immediately follow the number assigned to it.

Every chapter beginning with the first chapter should be serially numbered using Arabic numerals. Appendices included should also be numbered in an identical manner starting with Appendix.

**7.3 Numbering of Tables and Figures**

Tables and Figures appearing any there in the project should bear appropriate numbers. The rule for assigning such numbers is illustrated through an example. Thus if a figure in Chapter 3, happens to be the fourth then assign 3.4 to that figure. Identical rules apply for tables except that the word Figure is replaced by the word Table. If figures (or tables) appear in appendices then figure 3 In Appendix 2 will be designated as Figure A 2.3. If a table to be continued into the next page this may be done, but no line should be drawn underneath an unfinished table. The top line of the table continued into the next page should, for example read Table 2.1 (contained) placed centrally and underlined.

**7.4 Numbering the Equations:**

Equations appearing in each Chapter or Appendix should be numbered serially, the numbering commencing a fresh for each Chapter or Appendix. Thus for example, an equation appearing in Chapter 2, if it happens to be the eighth equation in that Chapter should be numbered (2.8). Thus:

C(s) G1G2

-----------= ----------------------- 2.8

R(s) 1+G1 G2

While referring to this equation in the body of the project it should be referred to as Equation (2.8).

**8. BINDING SPECIFICATIONS**

* Project submitted for B.Tech (ONE copy) should be bound using flexible cover of thick white art paper. The spine for the bound volume should be of **black Calico** of 20mm width. The cover should be printed In black letters and the text for printing should be identical to what has been prescribed for the title page.
* Soft copies of the demonstration */* implementation of the project work carried out should be submitted through E-mail/Google Drive