

FORMAT OF SEMINAR REPORT & PROJECT

PAPER : Reports should be printed in **good quality A4 size** paper. Paper used for photocopying should be of good quality. Use the alignment ***Jusify*** for all except Equations and References, Table of contents, List of Tables, List of Figures, and List of Abbreviations etc.

Margins : Left hand margin on all pages including the title page ,all appendices, diagrams and figures must be **1.5 inches** to allow space for binding. **Top , bottom and right margin** should be **1 inch**. ***For chapter headings, the top margin should be 2”***

Type : The type font must be ***Times New Roman 12pt***

Line Spacing : The line spacing must be **1.5**

Page Numbering: The Contents pages, List of Abbreviations, List of figures, List of tables should be numbered using Roman numbers (i, ii, iii, iv etc). ***All pages from Chapter 1 should be numbered in Arabic numerals.***

Header and Footer: Header and footer must be present for all pages from Chapter 1 till references. Header and footer should not be inserted to REFERENCES

Top Left: Model Engineering College

Top Right: Seminar/project title

Bottom Left: Department of Electronics Engineernig

Bottom Right: Page Number

The Order should be

Front Page

Bonifide Certificate

Acknowledgement

Abstract

Table of contents

List of figures

List of Tables

List of Symbols

List of Abbreviations

List of Nomenclature

Chapters(including Introduction and Conclusion)

Reference

Appendix if any

Front Cover and Front Page : The front cover should be *light green in colour and The Project or Seminar Report should be bound using flexible cover with Plastic sheet soft binding*. The cover should be *printed in black letters* and the text for printing should be identical.

Bonafide Certificate : The Bonifide Certificate Shall be in **double line Spacing** using *Times New Roman Font and Font size 14*.

The certificate should carry the signature of supervisor followed by his/ her name, academic designation (not any other responsibilities of administrative nature), department and full address of the institution where the supervisor has guided the student. The Term' Guide' must be typed in Capital letters between the guide's name and academic Designation.

Name

Name

Name

Head of Department

Coordinator

Guide

Acknowledgement : The student have an opportunity to express this/her appreciation to those who contributed to their academic and personal growth. Acknowledgment should be *double line spaced* and font size should be **14**

ABSTRACT: The *abstract should be one page and should be a summary of Project / Seminar*. Typically the abstract includes a statement of the concept, the context of the work, a discussion of medium/ process including literature survey used and the conclusion. Abstract should be *double line spaced* and font size should be **14** and in italics. *Font is Times New Roman*.

TABLE OF CONTENT: The table of content should list the page numbers of the introduction and body of the report. The table of content should list all the materials following it as well as any material precedes it. The title and Bonifide Certificate will not find a place among the items listed in Table of contents. The *spacing* should be *one and a half*.

LIST OF TABLES : The list of tables should be **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. **The page number of the table** should be also **mentioned at the right hand side**.

LIST OF FIGURES : The list should use exactly same captions as they appear below the figures in the text. The spacing adopted should be one and a half. **The page number of the figure** should be also **mentioned at the right hand side**.

List of Symbols, Abbreviations and Nomenclature : The spacing adopted should be one and a half for typing matter under this text. Standard symbols, abbreviations etc should be used. They should be in alphabetical order. **The order should be first Greek letter, followed by Latin, Upper case English alphabets followed by Lower case English alphabets.**

THE MAIN BODY OF THE SEMINAR REPORT: The text of the body should be about a **minimum of 20 pages and a maximum of 50 pages** long. The body of the report should be an expanded version of the information contained in the abstract.

Headings: The Chapter numbers should be of **14 pt. and centre aligned and in title case. The Chapter heading should be capitals , size should be 16 pt. and centre aligned.** The Chapter headings including that of the introduction and conclusion should be numbered consecutively and consistently throughout the paper in Arabic Numerals. The heading itself should have an initial capital letter followed by lower case, except for proper names, acronyms etc. Sub sections headings may be numbered consecutively in Arabic numbers to the right of the decimal point with section number to the left of decimal point. Extra blank line should be left above and below each heading. Use font size 14 pt for sub headings.

eg.

Chapter 4

RECEIVER

4.1 Block diagram



4.2 Receiver operating Characteristics

Chapters – The Chapters should be broadly divided into three parts. 1) Introduction 2) Chapters developing the main theme of Project Work / Seminar and 3) conclusion.

The main text can be divided into several chapters. Each chapter may be divided into several divisions and sub divisions.

- ❖ Each chapter should be given an appropriate title
- ❖ Tables and figures should be placed in the immediate vicinity of the reference where they are cited.
- ❖ Footnotes should be used sparingly. They should be typed single space and place directly under the same page which refers to the materials they annotate.

Equations: Display Equations on separate lines distinct from the text. Equations should be *left aligned should be in italics and numbered*. The Quotation number should appear at the right end in parentheses.

Eg: In chapter 3 the fourth equation will be

$$x = y + t/8y + 4r \quad (3.4)$$

Use “Microsoft Equation” from “Insert Object” or “Microsoft Equation” or Equivalent software to type equations.

For long equations the right side of the equation should be broken down into appropriate parts and aligned to the right of the equal sign. The equation no should appear only at the rightmost end of the last line of the equation in this case. Use parenthesis to avoid ambiguity. Summation and integrals that appear within the text should have limits placed to the right of the symbol to maintain uniform line spacing.

Tables: Tables should be numbered in Arabic numerals like Table 3.1, 4.8 etc. The caption for each table should be provided above each table. Tables should be placed near the text where it is first mentioned. Tables should be centre aligned

Eg. Table 3.1 means the first table in the third chapter and 4.8 means eighth figure in fourth chapter. Table name must be in bold, italics and font size 12

Proper references must be quoted by superscripting the reference number.

Eg: ***Table 4.1: Various possible relationships between I and V***^[8]

Figures: Each figure should be placed close to the body of the text where it is first mentioned. Each figure should be given appropriate captions and should be numbered consecutively such as figure Fig. 6.3 (means third figure in sixth chapter). Figures should be clearly visible. All non verbal materials used in the body of Project / Seminar work and appendices such as Chart, graphs, maps, Photographs and diagrams may be designated as figures. Figures should be centre aligned.

Figure name must be in bold, italics and font size 12

Proper references must be quoted by superscripting the reference number.

Eg: ***Fig 4.2: Typical current-voltage characteristics***^[8]

List of References : The listing of references should be typed 4 spaces below the heading “**REFERENCES AND LINKS**” . The reference should be listed in IEEE format. These pages should not be numbered.

Use Regular and Italic styles to distinguish different fields as shown in the References section. Number the reference items consecutively in square brackets (e.g. [1]).

When referring to a reference item, please simply use the reference number, as in [2]. Do not use “Ref. [3]” or “Reference [3]” except at the beginning of a sentence, e.g. “Reference [3] shows ...”. Multiple references are each numbered with separate brackets (e.g. [2], [3], [4]–[6]).

Examples of reference items of different categories shown in the References section include:

- example of a book in [1]
- example of a book in a series in [2]
- example of a journal article in [3]
- example of a conference paper in [4]
- example of a patent in [5]
- example of a website in [6]
- example of a web page in [7]
- example of a data book as a manual in [8]
- example of a datasheet in [9]
- example of a master's thesis in [10]
- example of a technical report in [11]
- example of a standard in [12]

The examples for references are:

REFERENCES

- [1] S. M. Metev and V. P. Veiko, *Laser Assisted Microtechnology*, 2nd ed., R. M. Osgood, Jr., Ed. Berlin, Germany: Springer-Verlag, 1998.
- [2] J. Breckling, Ed., *The Analysis of Directional Time Series: Applications to Wind Speed and Direction*, ser. Lecture Notes in Statistics. Berlin, Germany: Springer, 1989, vol. 61.
- [3] S. Zhang, C. Zhu, J. K. O. Sin, and P. K. T. Mok, "A novel ultrathin elevated channel low-temperature poly-Si TFT," *IEEE Electron Device Lett.*, vol. 20, pp. 569–571, Nov. 1999.
- [4] M. Wegmuller, J. P. von der Weid, P. Oberson, and N. Gisin, "High resolution fiber distributed measurements with coherent OFDR," in *Proc. ECOC'00*, 2000, paper 11.3.4, p. 109.
- [5] R. E. Sorace, V. S. Reinhardt, and S. A. Vaughn, "High-speed digital-to-RF converter," U.S. Patent 5 668 842, Sept. 16, 1997.
- [6] (2002) The IEEE website. [Online]. Available: <http://www.ieee.org/>
- [7] M. Shell. (2002) IEEEtran homepage on CTAN. [Online]. Available: <http://www.ctan.org/tex-archive/macros/latex/contrib/supported/IEEEtran/>
- [8] *FLEXChip Signal Processor (MC68175/D)*, Motorola, 1996.
- [9] "PDCA12-70 data sheet," Opto Speed SA, Mezzovico, Switzerland.
- [10] A. Karnik, "Performance of TCP congestion control with rate feedback: TCP/ABR and rate adaptive TCP/IP," M. Eng. thesis, Indian Institute of Science, Bangalore, India, Jan. 1999.
- [11] J. Padhye, V. Firoiu, and D. Towsley, "A stochastic model of TCP Reno congestion avoidance and control," Univ. of Massachusetts, Amherst, MA, CMPSCI Tech. Rep. 99-02, 1999.
- [12] *Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specification*, IEEE Std. 802.11, 1997.

References to journal papers should contain the *name of the author(s), title of the paper, name of the journal, volume number, issue number, particular pages (pp) and year of publication*. If there are more than three authors, it is enough to mention the name of the first author followed by *.et.al* (meaning *and others*)

Example:

Benjamin Kuo and Martin Luther: An overview of chaotic systems, International Journal of Control, Vol. 21, No 3, March 2004, pp 341-349.

Or

Rober Franklin *et. al.* : An overview of chaotic systems, International Journal of Control, Vol. 21, No 3, March 2004, pp 341-349.

Appendices : Appendices are provided to give supplementary information , which included in the main text may serve as a distraction and cloud the central theme

- Appendices should be numbered using Arabic numerals. E.g. .Appendix 1,Appendix 2, etc
- Appendices Tables and References appearing in appendices should be numbered and referred at appropriate places just as in the case of chapters.
- Appendices shall carry the title of work reported and the same title shall be made in the content pages also.
- Appendices pages should not be numbered.

Submission of Report

All students must submit a draft report duly verified and signed by their respective guides **at least two days** before actual presentation. Submission of final report should be done in prescribed format; preferably the electronic version on the dates notified .The total students in a class can collectively submit their reports in one or two CDs. Other than the personal copy of the student, three hardcopies and one soft copy of the report are required.

To be remembered

The colour of font should be Black with no background and it should not be highlighted with other colours.

The general text should be in Times new roman 12 pt font.

Always give proper citation to the text matter and figures which you have used from the reference materials.

USER OPERATED MANUAL STIMULATION EQUIPMENT

SEMINAR / PROJECT REPORT

Submitted by

ABCDRFI

ABCDRFI

in partial fulfillment for the award of the degree

of

Bachelor of Technology

in

ELECTRONICS AND COMMUNICATION ENGINEERING

of

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY



DEPARTMENT OF ELECTRONICS ENGINEERING

MODEL ENGINEERING COLLEGE

COCHIN 682 021

APRIL 2010



MODEL ENGINEERING COLLEGE
THRIKKAKARA, KOCHI-21
DEPARTMENT OF ELECTRONICS ENGINEERING
COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

BONAFIDE CERTIFICATE

This is to certify that the seminar report entitled

.....

.....

Submitted by

.....

.....

is a bonafide account of the work done by him/her under our supervision

Dr. Mini M G

Head of department

Ms. Jibi John

Project coordinator

Mr./Ms.

Project guide