

**(Format for the Training Report)**

Sample Sheet (Title Page/Front Page)

**A REPORT OF SIX MONTH TRAINING (14 PT.)**

at

**[NAME OF COLLEGE/INDUSTRY/INSTITUTE]**

**SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD**

**OF THE DEGREE OF (12pt.)**

**BACHELOR OF TECHNOLOGY(14 pt.)**

**(Electronics & Communication Engineering) (14pt.)**

College Logo

**AUG- DEC, 2019(14 pt.)**

**SUBMITTED BY:**

**NAME(S) :**

**UNIVERSITY ROLL NO.(s) :**

**(12pt.)**

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING (12pt.)**

**GURU NANAK DEV ENGINEERING COLLEGE LUDHIANA(14pt.)**

**(An Autonomous College Under UGC ACT) (12pt.)**

## **B.TECH TRAINING REPORT GUIDELINES**

1. The report shall be computer typed (English- British, Font -Times Roman, Size-12 point, Double spacing between lines) and printed on A4 size paper.
2. The report shall be hard bound with cover page in white color. The name of the candidate, degree, month of training, college name shall be printed in black on the cover [refer sample sheet (title page/front page)].
3. The report shall be typed on one side only with double space with a margin 3.5 cm on the left, 2.5 cm on the top, and 1.25 cm on the right and at bottom.
4. In the report, the title page [Refer sample sheet (title Page/front page)] should be given first then the Certificate by Company/Industry/Institute and then candidate's declaration, followed by an abstract of the report (not exceeding one page). This should be followed by the acknowledgment, list of figures/list of tables, notations/nomenclature, and then contents with page nos.
5. The diagrams should be printed on a light/white background, Tabular matter should be clearly arranged and the font of the Tabular matter should be Font -Times Roman, Size-10 point, Single spacing between lines. Decimal point may be indicated by full stop(.). The caption for figure must be given at the BOTTOM(center aligned) of the figure and Caption for the Table must be given at the TOP(center aligned) of the Table. The font for the captions should be Times Roman, *Italics*, Size-10 point.
6. The font for the chapter titles should be Times Roman, Bold, Capital, Size-16 point and center aligned. The font for the Headings should be Times Roman, Bold, and Size-14 point. The font for the sub-headings should be Times Roman, Bold, and Size-12 point.
7. Equations should be numbered as 1.1, 1.2, 1.3 etc in chapter 1. Similarly as 2.1, 2.2, 2.3 etc in chapter 2 and so on.
8. Figures should be numbered as Figure1.1, Figure 1.2, Figure 1.3 etc in chapter 1. Similarly as Figure 2.1, Figure 2.2, Figure 2.3 etc in chapter 2 and so on.

9. Tables should be numbered as Table 1.1, Table 1.2, Table 1.3 etc in chapter 1. Similarly as Table 2.1, Table 2.2, Table 2.3 etc in chapter 2 and so on.
10. Conclusions and future scope each must not exceed more than one page.
11. The graphs (optional) should be combined for the same parameters for proper comparison. Single graph should be avoided as far as possible.
12. The training report must consist of following chapters:
  - [Chapter-1] INTRODUCTION
  - [Chapter-2] TRAINING WORK UNDERTAKEN
  - [Chapter-3] RESULTS AND DISCUSSIONS
  - [Chapter-4] CONCLUSION AND FUTURE SCOPE
13. References (For style of references follow the instructions attached)
14. Appendix (Any additional information regarding training, (If any) e.g. program, is supposed to be included in appendix

**GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA**

**CANDIDATE'S DECLARATION**

I “NAME OF THE STUDENT” hereby declare that I have undertaken Six month training “Name of **Company/ Industry / Institute**” during a period from \_\_\_\_\_ to \_\_\_\_\_ in partial fulfillment of requirements for the award of degree of B.Tech (Electronics and Communication Engineering) at GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA. The work which is being presented in the training report submitted to Department of Electronics and Communication Engineering at GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA is an authentic record of training work.

Signature of the Student

The six month industrial training Viva–Voce Examination of \_\_\_\_\_ has been held on \_\_\_\_\_ and accepted.

Signature of Internal Examiner

Signature of External Examiner

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<b>Topic</b>	<b>Page No.</b>
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<i>Candidate's Declaration</i>	<i>ii</i>
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<i>Acknowledgement</i>	<i>vi</i>
<i>About the Company/ Industry / Institute</i>	<i>v</i>
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<i>Definitions, Acronyms and Abbreviations</i>	<i>viii</i>
<b>CHAPTER 1 INTRODUCTION</b>	<b>1-19</b>
<b>(This chapter should include the background of the topic of the training, theoretical explanation about the same, SW/HW tools learned)</b>	
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<b>(This chapter should include the sequential learning steps, methodology followed and project undertaken, if any)</b>	
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<b>CHAPTER 3 RESULTS AND DISCUSSION</b>	<b>__-__</b>
<b>(This chapter should include any results and the related discussions for the projects made during training. If no project has been made the results and snapshots for the tools learnt should be included)</b>	
3.1	—
3.2	—
3.3	—
3.4	—
<b>CHAPTER 4 CONCLUSION AND FUTURE SCOPE</b>	<b>__-__</b>
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<b>REFERENCES</b>	—
<b>APPENDIX (Program or any additional information regarding training)</b>	—

**(Note: Page No.s for different topics in report may vary according to the contents.)**

**Headings within the chapters should be numbered as 1.1, 1.2, 1.3 and so on for chapter 1. Similarly as 2.1,2.2, 2.3 and so on for chapter 2. The corresponding subheadings as 1.1.1, 1.1.2, 1.1.3 and so on.)**

## GNDEC Citation Reference

Citation standards in this reference are provided for:

- Books
- Conference Technical Articles/Papers
- Periodicals (Journals/ Transaction/Magazines/Letters)
- Reports
- Online sources
- Patents, Standards, Thesis (M.S.) and Dissertations (Ph.D.)

**NOTE:** For two authors use style [J. K. Author and A. N. Writer] and

For three or more authors: [separate author names by comma and also use word 'and' before the name of last author e.g. : J. K. Author, R. Cogdell, R. E. Haskell, and A. N. Writer]

### Books

*Basic Format:*

[1] J. K. Author, *Title of His Published Book*, xth ed. City of Publisher, Country: Abbrev. of Publisher, year.

*Examples:*

[1] B. Klaus and P. Horn, *Robot Vision*. Cambridge, USA: MIT Press, 1986.

[2] L. Stein, *Computers and You*, J. S. Brake, Ed. New York, USA: Wiley, 1994.

[3] M. Abramowitz and I. A. Stegun, Eds., *Handbook of Mathematical Functions* (Applied Mathematics Series 55). Washington, DC, USA: NBS, 1964.

### Conference Technical Articles/Papers

*Basic Format:*

[1] J. K. Author, "Title of paper," *Unabbreviated Name of Conference*, City of Conference, Country, year, pp. xxx-xxx.

*Example:*

[1] H. Chen, S. C. Laroiya, and M. Adithan, "Precision Machining of Advanced Ceramics" *International Conference on Advanced Manufacturing Technology (ICMAT - 94)*, Johor Bahru, Malaysia, 1994, pp. 203-210.

### Periodicals (Journals/ Transaction/Magazines/Letters)

*Basic Format:*

[1] J. K. Author, "Name of paper," *Unabbreviated Title of Periodical*, vol. x, no. x, pp. xxx-xxx, Abbrev. Month, year.

*Examples:*

[1] R. E. Kalman, "New results in linear filtering and prediction theory," *Journal of Electrical Engineering*, vol. 83, no. 5, pp. 95-108, Mar. 1961.

[2] Y. V. Lavrova, "Geographic distribution of ionospheric disturbances in the F2 layer," *IET Microwaves, Antennas and Propagation*, vol. 19, no. 29, pp. 31-43, Feb. 1961.

[3] E. P. Wigner, "On a modification of the Rayleigh-Schrodinger perturbation theory," (in German), *International Journal of Computational Intelligence Studies*, vol. 53, p. 475, Sep. 1935.

[4] W. Rafferty, "Ground antennas in NASA's deep space telecommunications," *IEEE Transactions on Antennas and Propagation*, vol. 82, pp. 636-640, May 1994.

## **Reports:**

The general form for citing technical reports is to place the name and location of the company or institution after the author and title and to give the report number and date at the end of the reference.

*Basic Format:*

[1] J. K. Author, "Title of report," Name of Company, City of Company, Country, Report No., xxx, year.

*Examples:*

[1] E. E. Reber "Oxygen absorption in the earth's atmosphere," Aerospace Corporation, Los Angeles, USA, Tech. Rep. TR-0200 (4230-46)-3, Nov., 1988.

## **Online Sources**

### ***FTP***

*Basic Format:*

[1] J. K. Author. (year). *Title* (edition) [Type of medium]. Available FTP: Directory: File:

*Example:*

[1] R. J. Vidmar. (1994). *On the use of atmospheric plasmas as electromagnetic reflectors* [Online]. Available FTP:atmnext.usc.edu Directory: pub/etext/1994 File: atmosplasma.txt

### ***WWW***

*Basic Format:*

[1] J. K. Author. (year, month day). *Title* (edition) [Type of medium]. Available: [http://www.\(URL\)](http://www.(URL))

*Example:*

[1] J. Jones. (1991, May 10). *Networks (2nd ed.)* [Online]. Available: <http://www.atm.com>

## **Patents, Standards, Thesis (M.S.) and Dissertations (Ph.D.)**

### ***Patents***

*Basic Format:*

[1] J. K. Author, "Title of patent," U.S. Patent x xxx xxx, Abbrev. Month, day, year.

*Example:*

[1] J. P. Wilkinson, "Nonlinear resonant circuit devices," U.S. Patent 3 624 125, July 16, 1990.

**NOTE:** Use "issued date" if several dates are given.

### ***Standards***

*Basic Format:*

[1] *Title of Standard*, Standard number, date.

*Examples:*

[1] *IEEE Criteria for Class IE Electric Systems*, IEEE Standard 308, 1969.

[2] *Letter Symbols for Quantities*, ANSI Standard Y10.5-1968.

### ***Thesis (Master) and Dissertations (Ph.D.)***

*Basic Format:*

[1] J. K. Author, "Title of thesis," M.S. thesis, Abbrev. Dept., Abbrev. Univ., City of Univ., Country, year.

[2] J. K. Author, "Title of dissertation," Ph.D. dissertation, Abbrev. Dept., Abbrev. Univ., City of Univ., Country, year.

*Examples:*

[1] J. O. Williams, "Narrow-band analyzer," Ph.D. dissertation, Dept. Elect. Eng., Harvard Univ., Cambridge, MA, 1993.

[2] N. Kawasaki, "Parametric study of thermal and chemical non equilibrium nozzle flow," M.S. thesis, Dept. Electron. Eng., Osaka Univ., Osaka, Japan, 1993.

### **References in Text**

#### *References in Text:*

References are needed be cited in the text and they should appear on the line, in square *inside the punctuation*. Grammatically, they may be treated as if they were footnote numbers, e.g.,

as shown by Brown [4], [5]; as mentioned earlier [2], [4]–[7], [9]; Smith [4] and Brown and Jones [5]; Wood et al. [7]

or as nouns:

as demonstrated in [3]; according to [4] and [6]–[9].

**NOTE:** Use *et al.* when three or more names are given.

### **Reference List Style**

Reference numbers are set flush left and form a column of their own, hanging out beyond the body of the reference.

The reference numbers are on the line, enclosed in square brackets. In all references, the given name of the author or editor is abbreviated to the initial only and precedes the last name. There must be only one reference with each number.

- [1] R. E. Kalman, “New results in linear filtering and prediction theory,” *Journal of Electrical Engineering*, vol. 83, no. 5, pp. 95-108, Mar. 1961.
- [2] Ye. V. Lavrova, “Geographic distribution of ionospheric disturbances in the F2 layer,” *Applied Soft Computing*, vol. 19, no. 29, pp. 31–43, Feb. 1961.
- [3] E. P. Wigner, “On a modification of the Rayleigh–Schrodinger perturbation theory,” (in German), *International Journal of Computational Intelligence Studies*, vol. 53, p. 475, Sep. 1935.
- [4] W. Rafferty, “Ground antennas in NASA’s deep space telecommunications,” *IEEE Transactions on Antennas and Propagation*, vol. 82, no. 3, pp. 636-640, May 1994.

**Important:** Editing of references may entail careful renumbering of references, as well as the citations in text.