

(Format for the Project Report)

Sample Sheet (Title Page/Front Page)

A Major/Minor Project

on

NAME OF THE PROJECT (14 PT.)

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 2014(14 pt.)

SUBMITTED BY:

NAME(S) :

UNIVERSITY ROLL NO.(s) :

(12pt.)

UNDER THE GUIDANCE OF:

NAME: NAME OF THE PROJECT

GUIDE DESIGNATION:

(12pt.)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING (12pt.)

GURU NANAK DEV ENGINEERING COLLEGE LUDHIANA(14pt.)

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

B.TECH PROJECT 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, session, 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 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 Figure 1.1, 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 project report must consist of following chapters:
 - [Chapter-1] Introduction & Project Formulation
 - [Chapter-2] Project Design
 - [Chapter-3] Development and Implementation
 - [Chapter-4] Conclusion and Future Scope
13. References (For style of references follow the instructions attached)
14. Appendix (Any additional information regarding Project)
15. The report must be duly signed by the Project Guide.
16. Paste a CD containing the soft copy of Report (in Docx and PDF), Reference papers and other material related to the work, on the inner side of back hard cover.
17. Student has to submit the hardware related to the project at the time of viva-voce.

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA

CANDIDATE'S DECLARATION

I hereby certify that the work which is being presented in the Project entitled "TITLE" by "NAME OF THE STUDENT" in partial fulfillment of requirements for the award of degree of B.Tech. (Electronics and Communication Engineering) submitted to the Department of Electronics and Communication Engineering at GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA is an authentic record of my own work carried out during a period from _____ to _____. The matter presented in this project has not been submitted by me or anybody else in any other University / Institute for the award of B.Tech Degree.

Signature of the Student

This is to certify that the above statement made by the candidate is correct to the best of my own knowledge.

(Signature of Project Guide/Guides)

The Major Project Viva-Voce Examination of _____ has been held on _____ and accepted.

Signature of Internal Examiner

Signature of External Examiner

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

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 the 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. Laroia, 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.