

GUIDELINES
FOR THE PREPARATION OF Ph.D. SYNOPSIS REPORT



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY TIRUCHIRAPPALLI
SETHURAPATTI, TIRUCHIRAPPALLI – 620 012

MONTH YYYY

SYNOPSIS

THE ARRANGEMENT OF PARTS OF THE SYNOPSIS OF A Ph.D. / M.S. Synopsis

1. **Cover Page:** A Sample sheet is enclosed. (Annexure 1)
2. **Title:** Should be as short as possible and accurate.
3. **Introduction:** Outline briefly the technological / engineering / scientific / Socio – economic relevance or significance of the research work is being reported.
4. **Literature review:** Comprehensive analysis of the literature work related to the research study.
5. **Objective(s) and Scope:** State clearly the questions for which answers are sought through this research. Define the conceptual, analytical, experimental and / or methodological boundaries within the exercise has been carried out.
6. **Description of the research work / Research Flow:** Give brief, but sufficient, details regarding
 - a. Working principle of proposed model
 - b. Interpretation of the results / output
 - c. Conclusion
7. **References:** List them according to the given format. All these must have been referred to in the text of the synopsis, literature review. Times new Roman (12 pts, 1.5 line spacing) (Annexure 2)
8. **Tables and figures:** All these must be captioned, serially numbered and referred to in the text.
9. List of publications based on the research work.
10. The style of presentation (fonts, chapter No., margins, section and sub section no., equation number, figures, tables, etc.) must be same as in the synopsis.

GUIDELINES FOR THE PREPARATION OF SYNOPSIS

1. TITLE PAGE

The title of the synopsis should be as concise as possible. It must occur consistently in every respect, including punctuation, capitalization, and hyphenation, on the abstract and approval forms. On the title page, the identical title must appear in all capital letters with each line centered on the page. The month in which the synopsis is submitted, e.g., May, August, or January is to be printed at the bottom of the page. The title page is not numbered, but it is counted.

2. PAGE DIMENSIONS AND MARGIN

The synopsis should be prepared on good quality white paper preferably not lower than 80 GSM. Standard A4 size (210 mm X 297 mm) paper should be used for preparing the copies.

The final synopsis should have the following page margins:

Top edge : 1 inch (25 mm)

Left side : 1 ½ inch (38 mm)

Bottom edge : 1 inch (25 mm)

Right side : 1 inch (25 mm)

3. TYPE-SETTING, TEXT PROCESSING AND PRINTING

The text shall be printed employing Laserjet or Inkjet printer, the text having been processed using a standard text processor. The standard font shall be Times New Roman of 12 pts with 1.5 line spacing. **The text must be 1.5 lines spaced and printed on back-to-back of each page.**

Text

The text must be divided into a logical scheme that is followed consistently throughout the document. The larger divisions and more important minor divisions are indicated by suitable, consistent headings. Chapter organization as practiced by the discipline should be followed. Specific requirements for text presentation follow.

1. Headings and Subheadings

The scholar may use headings and subheadings to subdivide chapters or sections, but a consistent sequence of headings as identified in the style guide selected must be followed. Once the sequence is chosen, it must be followed consistently throughout the synopsis.

Sections and sub-sections can be numbered using decimal points, e.g., 1.2, 1.2.1. Use only Arabic Numerals with decimals. Section numbering should be left justified using large bold print. Sub section numbering should be left justified using large bold print.

2. **Introduction** shall justify and highlight the problem poser and define the topic and the aim and scope of the work presented in the synopsis. It may also highlight the significant contributions from the investigation.
3. **Review of Literature** shall present a critical appraisal of the previous work published in the literature pertaining to the topic of the investigation. The extent and emphasis of the **Literature** shall depend on the nature of the investigation.

4. **Tables, Figures and equations Format**

The term "table" refers to a columnar arrangement of information, often data sets, organized to save space and convey relationships at a glance. The term "figure" refers to graphs, drawings, diagrams, charts, maps, or photographs. All such details should be inserted in the text near where they are first mentioned. A table or figure may appear on the same page as the text that refers to it or on a separate page. Each figure or table must be numbered and have a caption. Captions are placed below figures and pictures and above tables. Captions may be single- or double-spaced. As far as possible tables and figures should be presented in portrait style. Small size table and figures (less than half of writing area of a page) should be incorporated within the text, while larger ones may be presented in separate pages. Table and figures shall be numbered. For example, **Figure 1** or *Fig.1 Table* number and title will be placed above the table while the figure number and caption will be located below the figure. Reference for Table and Figures reproduced from elsewhere shall be cited in the last and separate line in the table and figure caption, e.g. (after McGregor [12]).

All the equations should be typed in equation editor and should be properly numbered
For Example,

$$\text{Equation} \tag{1}$$

Figure should be plotted legibly, caption should be written under the figure with number.

Table should be drawn with proper headings for each column and name of the table should be written in the top of table with number.

- 5. Results and Discussions:** This shall form the penultimate the synopsis and shall include a thorough evaluation of the investigation carried out and bring out the contributions from the study. The discussion shall logically lead to inferences and conclusions as well as scope for possible further future work.
- 6. Summary and Conclusions:** A brief report of the work carried out shall form the first part of the **Summary and Conclusions**. Conclusions derived from the logical analysis presented in the Results and Discussions shall be presented and clearly enumerated, each point stated separately. Scope for future work should be stated lucidly in the last part of the **Summary and Conclusions**.

7. Pagination

Lower-case Roman numerals are used to number all pages preceding the text. Beginning with the first page of the text, all pages are to be numbered with Arabic numerals consecutively throughout the synopsis document, including the list of references. The Arabic numerals must be positioned at the bottom of the page, centered between the margins. Page headers or running heads may not be used in the synopsis.

8. Binding

The synopsis shall be soft cover bound with the black edge soft binding.

9. Front Covers

The front cover shall contain the following details:

- Full title of synopsis in 14 point's size font properly centered and positioned at the top.
- Full name of the candidate in 14 point's size font properly centered at the middle of the page.
- A 1.25 inch X 1.25 inch size of the Institute emblem followed by the name of the Department, name of the Institute and the month and year of submission, each in a separate line and properly centered and located at the bottom of the page.

**SYNOPSIS OF
TITLE OF THESIS**

Size
14 points (Bold Centre)

A THESIS

to be submitted by

NAME OF THE SCHOLAR

Size
14 points (Bold)

for the award of the degree

of

DOCTOR OF PHILOSOPHY

Size
14 points (Bold)



Size
14 points (Bold)

**NAME OF THE DEPARTMENT
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY TIRUCHIRAPPALLI
SETHURAPPATTI, TIRUCHIRAPPALLI- 620 012.**

MM YYYY

References

1. For papers by Single Author,

J. Quackenbush, "Microarray data normalization and transformation," *Nat Genet*, vol. 32, no. 4, pp. 496–501, 2002, doi: 10.1038/ng1032.

2. For papers by Two Authors,

Z. M. Hira and D. F. Gillies, "A review of feature selection and feature extraction methods applied on microarray data," *Adv Bioinformatics*, vol. 2015, 2015, doi: 10.1155/2015/198363.

3. For papers by more than two Author,

D. Hongbin, L. Tao, D. Rui, and S. Jing, "A novel hybrid genetic algorithm with granular information for feature selection and optimization," *Appl Soft Comput*, vol. 65, pp. 33–46, 2018.

4. For Conference

J. Usefi and A. Rahimipour, "A Comparative Study of Feature Selection Methods in Genomic Datasets," 2019 IEEE 32nd International Symposium on Computer-Based Medical Systems (CBMS), Cordoba, Spain, pp.," in 2019 IEEE 32nd International Symposium on Computer-Based Medical Systems (CBMS), Cordoba, Spain, 2019, pp. 471–476.

5. For Book chapters

W. E. Kelly, B. Luke, and R. N. Wright, *Engineering for Sustainable Communities: Principles and Practices*. Reston: American Society of Civil Engineers, 2017. Accessed: Apr. 2, 2018. [Online]. doi: 10.1061/9780784414811

QUICK REFERENCE

PAGE DIMENSIONS AND MARGIN

Paper size : 80 GSM. Standard A4 size (210 mm X 297 mm)

Margins

Top edge : 1 inch (25 mm)

Left side : 1 ½ inch (38 mm)

Bottom edge : 1 inch (25 mm)

Right side : 1 inch (25 mm)

Print out : Laserjet or Inkjet printer, **printed on both sides**

Font size (regular Text) : Times New Roman of 12 pts

Spacing : 1.5 line spacing

Sections : 12 pts bold left aligned (Capital Letters)

Subsections : 12 pts bold left aligned (Title case)

Page numbers : Bottom – centered – 12 pts (1, 2, 3...)

Binding : Soft binding (edge with black color strip)

Number of copies

Ph.D. : 04* A4 Copy with soft copy in C.D/ Pen drive.

*In case of any additional number of copies is required to be submitted, the Ph.D. student will be asked to submit the same.