FINAL-YEAR PROJECT REPORT WRITING GUIDELINES

Expected Content ........................................................................................................................................... 2
Content summary ............................................................................................................................................ 4
Example Layout ........................................................................................................................................... 5
Report Format .................................................................................................................................................. 6
Stylistic And Grammar Advice .................................................................................................................... 9
Useful Web Based Resources ..................................................................................................................... 10
FINAL-YEAR PROJECT REPORT WRITING GUIDELINES

The final year report is an important undertaking and should use the structural guidelines outlined below. Examiners are very interested in the process that was used during the final year project. The mechanism for detailing the process is the final year project report.

EXPECTED CONTENT

Title Page
This should contain the following information:
- Title,
- Full name of author,
- Degree that it contributes towards,
- Industrial or other collaboration if appropriate,
- Month and year of submission.
Note that the title page should not show a page number.

Abstract
This should be not more than one page in length. The abstract should allow the reader who is unfamiliar with the work to gain a swift and accurate impression of what the project is about, how it arose and what has been achieved.

Contents List
This should give a complete list of what the report contains starting with the abstract (the title page is not included in the contents list).

List of Tables/Figures
If the report contains figures or tables a list of these should be provided. The list should give the table or figure number, the title of the table or figure and the page number. If only a few tables and figures are present, they may be treated on one page. Remember that all figures and tables used must be referred to in the text. For example “The class diagram shown in Figure 2.1 ....”

Acknowledgements
It is normal to thank those who have given help and support (typically your supervisor). Keep acknowledgements short and business-like.

Introduction/Background
This section introduces the reader to the subject area in the project. It may include such things as:
- how the need for the system etc was identified,
- the nature of the
- application area, the relationship with any industrial partner and so on.
A brief outline of the project work should also be included. Some evidence of reading around the area is expected. This reading could be outlined in either a References Section or a Bibliography Section. A plan of organization for the project should be stated in the introduction section.

**Methodology (Main Body of the Report)**
This section should/could be divided into a number of chapters and sub-chapters. Each of these should contain a reasonably separate topic of discussion and be arranged in a logical sequence. The linkage between chapters should be stated clearly at the beginning and/or the end of each chapter to show the relationships between chapters.

**Conclusion**
The conclusion chapter should state briefly the achievements of the project, the conclusions and suggestions for further work.

**Appendices**
These should be used for reference material, such as selected pieces of research data and other information which is too bulky, or would detract from the flow of the text, if included in the main body of the document. Try to make reference material that will be consulted from many different places in the document and appendix. Otherwise, put the information into a figure or table and keep it close to the text that refers to it.

**References** and Bibliography
There should always be a list of all books, articles and technical resources consulted. The use of all source material should be explicit in the report. This means that normally every item in the reference list will be referred to in the report and every item mentioned in the report will have an entry in the reference list.

---

1 The reference in the text could appear as “.. the best system [23]..” and the Reference Section would have: [23] “ Is Linux the best “, Linux World, John Waters, Dec 02, pp 23 –45.

2 The Bibliography contains details of books, articles etc that are not referenced directly in the text but were read by the author and were used during the project as significant information sources.
## CONTENT SUMMARY

<table>
<thead>
<tr>
<th><strong>Content</strong></th>
<th><strong>Advice</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Abstract</strong></td>
<td>Do not include, references to figures, etc., information in the report, background information. Extract key points and condense material</td>
</tr>
<tr>
<td>♦ State main objectives – What did you investigate and why?</td>
<td></td>
</tr>
<tr>
<td>♦ Describe methods – What did you do?</td>
<td></td>
</tr>
<tr>
<td>♦ Summarize important results – What did you find out?</td>
<td></td>
</tr>
<tr>
<td>♦ State main conclusions – what do your results mean?</td>
<td></td>
</tr>
</tbody>
</table>

| **Introduction** | Move from general to specific – relate problems in the real world to your research. Make clear links between the problem and the solution. Be selective in choosing studies to cite. |
| ♦ Describe the problem investigated. | |
| ♦ Summarize relevant research to provide context, key terms, and concept so the reader can understand the experiment. | |
| ♦ Review relevant past research to provide rational for your work. | |
| ♦ Briefly describe your research – design, research, hypothesis, etc. | |

| **Methodology** | Provide enough detail for replication of your work. Order procedures chronologically. Use past tense to describe what you did. Don’t mix results with procedure. |
| ♦ How you studied the problem and what you used – materials, subjects and equipment. | |
| ♦ How you performed the research – methods and procedure. | |

| **Conclusions** | Make explanations complete. Avoid speculation that cannot be tested in the foreseeable future. Discuss possible reasons for expected or unexpected findings. |
| Outline the success of your project when compared to the objectives that were set. | |
| ♦ Suggest further work for your research area. | |
| ♦ Summarise the most important findings. | |
**EXAMPLE LAYOUT**

The previous pages could be interpreted and a report laid out in the following fashion

<table>
<thead>
<tr>
<th>♦ Abstract</th>
</tr>
</thead>
<tbody>
<tr>
<td>♦ <strong>Chapter 1: Introduction</strong></td>
</tr>
<tr>
<td>- Motivation</td>
</tr>
<tr>
<td>- Problem description</td>
</tr>
<tr>
<td>- Objectives of the work</td>
</tr>
<tr>
<td>- Organisation of the report</td>
</tr>
</tbody>
</table>

| ♦ **Chapter 2: Background**  |
| - Details of relevant theory  |
| - Review of past/reported work  |
| - Brief introduction of the proposed work/solution  |

| ♦ **Chapter 3:** (Appropriate title related to research)  |
| - Main work, e.g., solution approach, theory, simulation software, circuit design, etc.  |

| ♦ **Chapter 4:** (Appropriate title related to research)  |
| - Results and findings based on the method described in Chapter 3  |

| ♦ **Chapter 5: Evaluation**  |
| - This could be optional, depending on the content of the research. This chapter provides an objective evaluation/comparison of the student's work with others.  |

| ♦ **Chapter 6: Conclusion**  |
| - Review of the project and reiteration of important findings  |
| - Suggestion for future work  |

| ♦ Appendices  |
| ♦ References  |
| ♦ Bibliography  |
REPORT FORMAT
The information in this section explains how the report should look. Set them up on a word processor and use them throughout the preparation of the document than to attempt a major rearrangement of material at the last minute.

Length
There is no hard rule about overall length because this will vary with each project depending on the nature of the work. For a B.Eng. report, approximately 120 pages, including tables and appendices is an acceptable upper limit. Ask advice from your supervisor and remember, quantity is no substitute for quality.

Paper
The entire report must be submitted on A4 size paper.

Printing
The report should be printed on one side of each page only. The print quality should be dark and clear.

Margins
Left margin 25mm. Top, bottom and right margins 20mm.

Justification
Right and left margins should be justified (giving a straight edge to the text on both sides).

Font size
Use a Times New Roman or similar style font, point size 12 for most of the document.

Pagination
The report must carry sequential pagination throughout, including appendices. The page number should be on the top right margin of each page. The title page is counted in the numbering, but bears no page number.

Page Breaks
Try to ensure that these occur in sensible places. There is no need to take a new page for each main section heading but you should do so for new chapters. Never let a page break separate the last line of a paragraph. Try to ensure that, if possible, enumerated lists (a, b, c, etc) are not split across pages.

Header
A header should be placed at the top of each page apart from the title page. In addition to the page number, the document header should include the candidate’s name, qualification sought and calendar year.
Paragraphs
These should be blocked (no indentation on the first line) and separated by a single blank line (this blank line is double-spaced).

Citations
Where a sizeable chunk (around 30 words or more) is quoted from the work of another author, the quotation should be blocked and indented 0.5” from the left and right margin. It should also be separated from the preceding and following text by a blank line. There is no need to use quotation marks.

If this was an extract from a publication about report writing that I wanted to include, it would be set in this way to distinguish it from my own words. When quoting direct from a source it is essential to provide a full reference, including page number, so that readers can locate the passage if they so desire. (Author, date, page number or a unique number)

This author’s name would appear in the references. If the quotation omits some material between the source’s start and end points, this is indicated by dots as follows:

If this was an extract from a … it would be set this way. (Author, date, pg.)

When quoting small amounts, the quotation can be incorporated in the text, without the need to offset it. In this case quotation marks are used to delineate the words copied. For example, according to Chan (1999) “it is of paramount importance to acknowledge the work of others”.

A further way to cite from another author’s work is to refer to it, but not quote from it. The next sentence gives an example. According to Chan (1999) the use of formal methods has little to offer.

Care to acknowledge the work of others is of paramount importance. Use of work of others without attribution is tantamount to stealing.

Line Spacing
The text of the document should be double-spaced.

Headings and Legends
Section and subsection headings should be emboldened. Major Headings should be printed in point size 14. Legends (these are the figure and table identifications) should be emboldened and centred, but not enlarged.
Sectioning
Sections and subsections are used to organise the document into cohesive chunks for the reader. Give them meaningful headings. Never subdivide beyond three levels e.g. 3.1.1.2 is too much.

Below is an example of the numbering system:

1 Chapter 1
  1.1 Section 1 of Chapter 1
    1.1.1 Sub-Section 1 of Section 1
      A Division A of Sub-section 1
        i.) Sub-Division i.) of Division A
        ii.) Sub-Division ii.) of Division A
      B Division B of Sub-Section 1
    1.1.2 Sub-section 2 of Section 1
  1.2 Section 2 of Chapter 1
2 Chapter 2

Tables and figures
These should each be sequentially (and separately) numbered throughout the document. They should be centred and labelled with identification number and title. What the table and figure is intended to show should be clear. If a graphical representation is used, axes must be clearly labelled. It is common to include a line or two under the table identifier to clarify contents. If necessary to fit the contents of a table on one page, 10-point font size may be used; alternatively the page may be printed in landscape mode.

Appendices
These should be sequentially numbered starting with Appendix 1. Pagination continues form the main body of the document through the appendices.

References
There are a variety of ways to reference material used in a report. Below is just one example. If there is a lengthy list (several pages), use 10-point font size, otherwise use 12 point. References can be given in the following format. (Books (notice that it is the book title that is italicised).


Book Chapters (this is to cite a chapter in an edited book)

Journal Article (notice, in the first example, the journal article title is italicised, the figure following is the volume number (normally emboldened), with the
issue number after the oblique and then the page numbers)


**STYLISTIC AND GRAMMAR ADVICE**

**Apostrophes**

One of the most common mistakes in student writing is incorrect use of the apostrophe (‘), as in PC’s to mean a number of PCs. It is used in English to form contractions such as didn’t (did not), can’t (cannot) and it’s (is). These uses should be avoided in academic writing and the words written out in full. The apostrophe is also used to denote possessive case, as in *the dog’s bone or the student’s assignment*. The rule here is that of the intended noun is singular (one dog) the apostrophe is placed before the s. The examples above refer to a single dog and a single student respectively. If the intended noun is plural and regularly formed, the apostrophe is placed before the s as in *dogs’* (of the dogs). However if the noun has an irregular plural, e.g. child – children, the apostrophe is placed before the s as *in children’s*.

**Acronyms**

Computing/engineering are fields in which acronyms are heavily used to avoid repetition of long technical terms, e.g. RAM, LAN, VDU. Terms like VDU are now so commonly used by the population at large that it is rapidly becoming admissible to use them without explanation. However, most acronyms are familiar only to specialists within sub-fields of computing/engineering. When using an acronym for the first time, always precede it with the expanded version.

**Colloquialisms**

These are chatty, idiomatic or slang expressions that are appropriate in informal conversion but have no place in your report. For example;

*Once Pat pulled his finger out, the team started to come together better and eventually we managed to hand something in that is pretty reasonable considering we didn’t know each other much before this report.*

A related point is that in academic and technical writing the use of the first person ‘I’ is avoided as much as possible. In similar way, avoid referring to the reader as ‘you’.

**Grammar**

Do be careful to write in full sentences and to proof read the document to ensure not only that the text is grammatically sound, but also that it means exactly what was intended.

**Jargon**

Try to strike a good balance between use of jargon and appropriate use of technical terms. There is no merit in using so much obscure terminology that the
document is virtually unreadable, but on the other hand, failure to use key words properly can lead to unnecessary wordiness and tends to give an unprofessional impression. It is important to be consistent in the use of terms, to define them if necessary and to use the same term for the same concept throughout.

**Spelling**
There should be no excuse for spelling mistakes in a word processed document. Spelling errors create a bad impression. Always use a spell checker, they are invaluable for picking up typographical errors as well as genuine spelling mistakes. Note, however, that spelling checkers cannot detect cases where the wrong word happens to be a real word e.g. *from* – *form*. So a careful proof read is necessary.

**USEFUL WEB BASED RESOURCES**

- Electrical Engineering Final-Year Project Report Guidelines:
  - [http://www.engl.polyu.edu.hk/EECTR/eehandbook/home.htm](http://www.engl.polyu.edu.hk/EECTR/eehandbook/home.htm)
- Final Year Projects
- Final year Project report sample
  - [http://www.comp.brad.ac.uk/intranet/modules/PROJ/proj%20info/sampleone.doc](http://www.comp.brad.ac.uk/intranet/modules/PROJ/proj%20info/sampleone.doc)
- Guidelines for the Projects Reports
  - [http://igor.gold.ac.uk/~mas01fl/teaching/projects/projects-reports.html#section1](http://igor.gold.ac.uk/~mas01fl/teaching/projects/projects-reports.html#section1)

**Guidelines Adapted from**
Michael Tse, Dept. Electronic and Information Engineering, The Hong Kong Polytechnic University