

**MUĞLA SITKI KOÇMAN UNIVERSITY**

**FACULTY OF ENGINEERING**

**DEPARTMENT OF MINING ENGINEERING**

**MINE 4005 Project Design in Mining or Mineral Processing I**

**OR**

 **MINE 4004 Project Design in Mining or Mineral Processing II**

**TITLE OF THE PROJECT**

***Student ID***

***Name & Lasrt name of the Student***

MUĞLA - TÜRKİYE

Supervised by :

Title Name Last name of the Supervisor

# Abstract

# IMPORTANT NOTICE: Table of contents may be rearranged, provided that overall structure of the template is maintained, depending on the area and title of the project to be carried out as supervised by the lecturer

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# Introduction

##  State of the Technology

Instruction: **Writing style and spelling**

Use clear and concise writing throughout the paper and proper English spelling.

* Colons and semi-colons: No space before, one space after.
* Dashes: Be consistent throughout. Use hyphens within and between words (-) and en-dashes for ranges (–).
* SI units: Space between number and unit (25 km).
* Initials: One space between initials (P. A. Riveros).
* Recommendation: Aim for a paper length of mininmum 20 pages and maximum 30 pages (most are approx. 12 p.) for a full paper, including title, authors, abstract, main text, figures, tables, and references.

Authors are responsible for ensuring the accuracy of all information in their papers (e.g., proper names of organizations, data, and references). SI units or acceptable metric equivalents must be used throughout. These instructions will enable you to prepare your paper in an word document format. It is essential that these instructions are carefully followed!

**HOW TO FORMAT AND PREPARE THE PAPER**

**MAJOR HEADING** centred, NOT indented!

Prepare your paper using Word (.doc or .docx). To ensure that your paper has an identical appearance when viewed on almost any computer.

**Example of a second-level heading** NOT indented!

**Page size and lay****out**

Add page numbers.

Table title

centred, NOT indented!

Table 1. Paper margins

|  |  |
| --- | --- |
| Margin | Letter (8.5 × 11 inches) |
| Top | 2.90 cm (1.14 inches) |
| Bottom | 2.80 cm (1.10 inches) |
| Left & right | 3.20 cm (1.26 inches) |

\*Ensure you select the correct paper type (letter) for your margins

**Type styl****e and spacing**

All headings and text must be typed in black Times New Roman (TNR) font. Use 12-point type size throughout your paper. **Single space all text (no extra lines before or after)**

Example of a third-level heading

NOT indented!

First page

The first page contains:

* The title of the paper in bold 12-point TNR, all letters in capitals; the title begins on the 5th line from the top margin (i.e., 4 blank lines above).
* The authors’ names, separated from the title by a single blank line, centred, in regular TNR, with the first letter of each part of the name capitalized.
* Co-author(s) are placed on the same line and in the same format as the first author, with the names separated by commas, and for the last author, a comma plus “and”.
* The author’s affiliation and address, immediately below the name, centred and single-spaced, *in italics*.
* The major heading **ABSTRACT**, centred, all letters capitalized, in bold.
* The body of the abstract should not exceed 200 words. Use regular font Times New Roman, fully justified, separated from the heading **ABSTRACT** by one blank line and indented.
* The abstract is a single paragraph and does not contain figures or references.
* Use keywords that you would use if you were searching for your paper.
* Insert one blank line under the keywords

Body of paper

The body of the paper begins with the major heading **INTRODUCTION**, centred, with all letters capitalized, in **bold**. Separate sections of the main text in accordance with the headings guidelines below.

Headings

All headings are in 12-point TNR font. Ideally, use three levels of headings: major, second-level, and third-level.Major headings, such as **ABSTRACT,** **INTRODUCTION, EXPERIMENTAL, RESULTS, DISCUSSION, CONCLUSIONS, ACKNOWLEDGMENTS,** and **REFERENCES** are centred (NOT indented), bold, not underlined, and in capital letters.

Second-level and third-level headings have the initial letter of the first word capitalized (this is termed sentence case) and positioned at the left margin. Second-level headings are bold. Third-level headings are not bold, but underlined. Both are separated from the text above and below by one blank line.

Text

Paragraphs are single-spaced (6 lines per inch), fully justified, with the first line indented 1.27 cm (0.5 inch). Paragraphs are separated from each other and from headings, figures, or tables with a blank line.

Equations and symbols

Simple mathematical expressions and sub- and super-scripted characters, such as SO42-, are inserted in the text. **Do not embed equations as an image**. Place equations on separate lines, centred and numbered consecutively in parentheses at the right-hand margin. A blank line precedes and follows each equation. Use a dash rather than a hyphen for the minus sign. Placing equations in tables (with no borders) helps position them correctly.

|  |  |
| --- | --- |
| ZnS + 3/2O2 🡪 ZnO + SO2 | (1) |
|  |  |
| ZnS + 3/2O2 = ZnO + SO2 | (2) |
|  |  |
| E = 1.23 – 0.06 pH | (3) |

**Figures**

Insert figures immediately after the paragraph where they are first cited. In the text, refer to the figure by its number, not its relative position. A figure too wide to fit between the margins may be placed in landscape orientation (sideways format), on a page by itself. Graphs (Figure 1), line drawings, photographs, and other illustrations are preferable in colour. Lines and lettering must be large enough to be legible when printed at 100%. For maps, microstructures and similar figures, place a scale marker on the picture or photograph. Do not use frames around figures. Do not use shaded backgrounds; they do not reproduce well.



Figure and caption centred, NOT indented!

Figure 1. Motor power with (red) and without (blue) speed controller

Number figures consecutively with Arabic numerals. A caption comprising the word “Figure,” the figure number, a period, a space, and the figure title in 12-point TNR, must be centred **below** each figure. A single blank line is used to separate a figure from its caption. Separate each figure and caption from the adjacent text with one blank line. Do not use a period at the end of the figure caption.

**Tables**

Insert tables immediately after the paragraph where they are first cited. In the text, refer to a table by its number, not its relative position. Large tables may be placed in landscape orientation on a page by itself. **Avoid splitting a table onto two pages**. Number tables consecutively using Arabic numerals and centre the title above the table. The word “Table” is followed by the table number, a period, and the title. There is no line space between the title and the table itself.

Table-wide lines (horizontal ½ point thickness) separate the title from the column headings, the column headings from the body of the table, and the table from the following text. Avoid using vertical lines and horizontal lines between rows of data. Table row spacing is at the discretion of the author(s). Separate each table from the adjacent text with one blank line.

Table 2. Electron microprobe analyses of sphalerite grains in the Kidd Creek “C” concentrate

|  |  |  |
| --- | --- | --- |
| Element | Average content (wt%) | Range (wt%) |
| Zn | 60.8 | 59.6–63.3 |
| S | 3.31 | 33.6–33.5 |

**REFERENCES**

**Citations in the text**

**Do not cite references in the text using numbers**. Use the “&” symbol in bracketed citations and “and” when the author names are part of the sentence. Cite all authors of papers with more than 2 authors the first time, then use “et al.” thereafter. Exception: if 6 or more authors, use “et al.” in all cases. Separate references cited in the text with semi-colons and place them in chronological order (earliest to most recent). Here are some examples:

Smith (2018) noted that…

Smith and Jones (2018) were the first to demonstrate…

Smith, Jones, and Foster (2018) detected….

After the first text citation above, Smith et al. (2018) detected…

Oxygen and temperature profiles were positively correlated (Smith, 2018)

Oxygen and temperature profiles were positively correlated (Smith & Jones, 2018)

Oxygen and temperature profiles were positively correlated (Smith, Jones, & Foster, 2018; Carmichael, 2019).

After the first text citation above, use (Smith et al., 2018).

##  Scientific Problem and Objective of This Project

# Critical Literature Review ….

# Mining

# Mineral Processing

# Practical Issues

# Conclusions and Recommendations

##  Conclusions

##  Recommendations

# References

Instruction: American Psychological Association (APA) referencing style might be employed. **Do not number references**, instead alphabetize by last name of first author. The reference list includes only publications cited in the text, figures, and tables. The following examples show reference formats for journal articles, chapters, theses, books, and conference proceedings.

Example:

Ang, T., Yang, Y., Huang, Z., Zhang, B., & Qiu, G. (2004). Leaching kinetics of pyrolusite from manganese-silver ores in the presence of hydrogen peroxide. *Hydrometallurgy, 72*(1–2), 129–138. https://doi.org/10.1016/S0304-386X(03)00136-1

Brummer, R. K., & Andrieux, P. (2008). Risk: quantitative decision making under technical uncertainty – evaluating probability of occurrence and cost of failures. In J. Hadjigeorgiou (Ed.), *Strategic vs. tactical approaches in mining* (pp. 173–183).

Champagne, P. (2007). *Sustainable development: Enhancing host-country capacity* (Unpublished master’s thesis). Edwin University, Cardiff, Wales.

Perry, R. H., & Chilton, C. H. (1973). *Chemical engineers’ handbook* (5th ed.). New York: McGraw-Hill.

Twigge-Molecey, C. (2003). Knowledge, technology and profit. *Proceedings of the 5th International Conference on Copper*, Santiago, Chile, 41–57.

# Appendix A If required

# Appendix B If required

**CHECKLIST**

* doc or docx format no pdfs
* Recommendation: minimum 20 pages and maximum 30 pages
* Font black, Times New Roman, 12 pt
* Title page: **PAPER TITLE** on the 5th line from top margin, **BOLD**, ALL CAPS, CENTRED. Leave one blank line after title.
* Author name(s) centred, blank line, then affiliations centred and in *italics*
* **MAJOR HEADING:** bold, all caps, centred (not indented). One blank line above/below headings.
* **Second level heading:** bold, sentence case, left justified
* Third level heading: underlined, not bold, sentence case, left justified
* Do not number headings
* Use em-dashes for ranges (e.g., pp. 33–45, 5–10 mg) and negative signs, NOT hyphens
* Figure captions: Centred **below** figure (not indented). First major word is capitalized. One blank line between figure caption and figure, above figure and below figure caption. No period after caption.
* Figures are a single object, formatted “in line with text”, NOT an assembly of objects that will shift if formatting changes are made
* Table titles: Centred **above** table (not indented). First major word is capitalized. No blank line between title and table. One blank line above/below table. No period after table title.
* Equations: Centred, one blank line above/below equation; equation number in brackets, right justified.
* DO NOT cite references in text by number, or number the references in the reference list.
* DO NOT use the Word cross-referencing tool to link figure and table citations in the text to the figures and tables. This introduces an error when the file is converted to pdf