

**Student Name:**

**Student Number:**

**Date due: 8th May 2025**

**Assignment Title:**

**Word Count:**

**Module Title: Research Methods & Technical Writing**

**Course: BSc Design, Technology & Innovation**

# Title

Your title should be short, to the point, descriptive and above all else clear.

# Abstract (one paragraph)

A brief description of the hypothesis and the goals of the experiment. It should indicate what questions you, as a researcher, will be seeking to answer. An abstract provides a summary that allows readers to quickly assess the basic premise of your proposal.

# Introduction/Background

Provides a description of the basic facts and importance of the research area - What is your research area, and the motivation for carrying out this research, and how important is it for the industry practice/knowledge advancement?

## Subheading 1

The number of subheadings you have in any section may vary.

## Subheading 2

Use different levels of subheadings as required.

# Problem Statement

Provides a clear concise description of the issues that need to be addressed - What is the specific problem in that research area that you will address (e.g. lack of understanding of a subject, low performance …)?

## Subheading 1

The number of subheadings you have in any section may vary.

## Subheading 2

Use different levels of subheadings as required.

# Literature Review

Laying the groundwork for your proposal with the material you present. Use a plethora of sources especially primary sources such as journal articles. Textbooks, web sites (with great caution) and personal experience and observations can also be useful sources. Make sure to cite appropriately in the text.

## Subheading 1

The number of subheadings you have in any section may vary.

## Subheading 2

Use different levels of subheadings as required.

# Research Hypothesis

What is the hypothesis that you are testing? What are the questions that you seek to answer? Based on what is known in this field, explain what you expect to see and hope to show through your result? This is where you share your thoughts.

## Subheading 1

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## Subheading 2

Use different levels of subheadings as required.

# Materials and Methods

Research methodology defines the research methods and logic steps - What to do and how to solve the problem and achieve proposed objectives? Which research methods (e.g., survey, modelling, case study …) will be used? Describe your proposed experiment in depth. What processes are you going to use? What kind of equipment and supplies will be necessary for the project? What will you use for a control, and what will be your replicate? Be thorough, but not excessive.

Note: Include a project schedule Gantt Chart for planning and executing your research project. This will be useful to construct before completing your Material and Methods section, as this will give you an idea of what should be occurring when, and if your goals are attainable in the given timeframe.

## Subheading 1

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## Subheading 2

Use different levels of subheadings as required.

# Conclusion and Justification

This is where you will explicitly state how your proposed research will advance knowledge in the area. What are the far-reaching effects? Will your study potentially change practices or policies?

# References

**There are no sources in the current document.**