

English Science  
and Technology  
Paper Writing –  
Pap



RESUME

# 目录

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- introduction
- Thesis topic selection
- Experimental design and data collection
- Data analysis and interpretation
- paper writing
- Paper review and revision

# RESUME





# Course Introduction

This course aims to provide students with an introduction to the process of writing English science and technology papers, including the importance of writing clear, concise, and well-structured papers.

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It also covers the basic principles and techniques for writing effective English abstracts and introductions, as well as the importance of following standard English grammar and punctuation rules.

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# The Importance of Thesis Writing

Thesis writing is an essential part of academic research and development. It allows researchers to communicate their findings to other experts in their field and to the broader academic community.

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A well-written thesis not only communicates research results effectively, but it also demonstrates the author's ability to think critically and express ideas clearly in English.



# The Basic Steps of Thesis Writing

- The first step in thesis writing is to choose a topic that aligns with the author's research interests and expertise.



# RESUME





# How to choose a research topic



## Consider personal interests and expertise

Choose a topic that aligns with your interests and areas of expertise to increase motivation and likelihood of success.

## Identify a gap in the literature

Conduct a literature search to identify a topic that has not been fully explored or where there is a need for new research.



## Consider practical applications

Think about the practical implications of your research and how it might impact real-world problems or industries.





# Determine research objectives and questions



## Define clear research objectives

Have a clear understanding of what you hope to achieve with your research, including specific aims and hypotheses to be tested.

## Formulate research questions

Develop well-structured research questions that guide your inquiry and help to focus your research.

## Consider research methods

Determine the appropriate research design and methods to collect data and analyze it effectively.



# Literature review



## Search and identify relevant literature

Use databases, academic search engines, and other resources to locate relevant articles, books, and other sources.

## Summarize and synthesize the literature

Read and analyze the selected literature, taking notes on key findings, theories, and methodologies.

## Evaluate the literature

Assess the quality and credibility of the sources, considering factors such as the research design, sample size, data analysis techniques, and conclusions drawn.



# 03

Experimental design  
and data collection





# Experimental design

## Purpose

Define the objective and hypothesis of the experiment.

## Variables

Identify the independent and dependent variables.



## Controlled Conditions

Specify any conditions that need to be controlled or standardized.



# Data collection methods

## Quantitative Data

Collect numerical data that can be measured or counted.

## Qualitative Data

Collect descriptive or narrative data.



## Sampling Strategies

Determine the appropriate sampling method for the research question.

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