FYP Research Proposal Writing

Jawad Ali Shah, PhD.
Senior Lecturer
UniKL BMI, Malaysia
Outline

• Types of Research Proposals
• Components of a research Proposal
  • Title
  • Abstract
  • Introduction (Chapter-1 FYP)
  • Literature review (Chapter-2 FYP)
  • Etc.
• Qualities of a good proposal
• Commonly used tools
  • Endnote, MS Word tools etc.
  • Turnitin for plagiarism
• Q&A
Types of Technical Writing

- Report of a technical meeting
  - Minutes of a technical session/lecture

- Technical Proposal (synopsis) or Thesis (Dissertation)
  - FYP, MS, PhD

- Proposal for funding

- Writing a research paper for publication
The FYP is as it sounds; a year-long project that evolves through three written phases:

1. The Proposal
2. The Progress Report
3. The Final Report

At the end of the cycle, you are also required to give a presentation of your work (for evaluation) and to construct a poster.

For the three written phases of the project, it is important to realize that each is derived from the phase before it.

Thus, there is a lot of thinking, planning, and writing involved in putting together the proposal.
Elements of FYP Report

- Title
- Abstract
- Introduction (Chapter-1)
- Literature review (Chapter-2)
- Methodology
- Results and discussions
- Conclusion & recommendations (Last Chapter)
- References
Elements of FYP Proposal…

- **Title**
  - Short and precise (Condenses the proposal content in a few words)
  - Focus on research topic (Captures the readers’ attention)
  - Differentiates your work from others in the same subject area
  - Avoid abbreviations and jargon (Know abbreviations can be used)

- **Abstract**
  An abstract is a brief summary of a research article, thesis, review, conference proceeding and is often used to help the reader quickly ascertain the purpose of the report.
Chapter-1 (Introduction)

- Gives the project a context or general overview and background
- Explains why the project is important
- States what the FYP aims (objectives) to accomplish and how
- Identifies possible problems or complications
- *Is written for a non-specialist*
Standard outline in Introduction chapter:

- 1.1 Background of the Project
  ✓ Present the general statement about the project
- 1.2 Problem Statement
  ✓ Present the specific problem as the motivation for our study
- 1.3 Objectives & Significance of the Project
  ✓ To design the prototype of….
  ✓ To compare the performance analysis between….
- 1.4 Scopes and Limitations of the Project
  ✓ The project can be applied to …
  ✓ The project only consists of
- 1.5 Chapter Summary
For all its strengths, GPS has two related weaknesses: signal reception and the accuracy of local information. Overcoming these weaknesses would greatly enhance its performance, thereby stimulating a new generation in GPS technology and design. We will create an algorithm that addresses the problem of local positioning while...

In this project, we will achieve the following goals: X, Y and Z. To achieve the first goal, we will review the literature on algorithm design and.... The technical challenges involved in reaching this first goal are...
Purpose of Literature Review:

- To provide facts/ideas from reliable source (source with authors like conference papers or journals)
- To write only the relevant information of your project
  - Related Theories
  - Previous Works
  - Alternate (Other) Techniques/Methods or algorithms
- *Please don’t forget to cite others work properly*

*Read More and More related articles*
Qualities of a good proposal

- Informative title
- Self-sufficient and convincing abstract
- Clear Introduction with lucid research questions
- Relevant previous work
- Appropriate measurement and intervention methods
- Well-defined assessment parameters
Qualities of a good proposal

• Sound analysis plan

• Nicely written conclusion

• Helpful headings and subheadings

• Good schematic diagrams and tables
Commonly Used Tool
Thank You