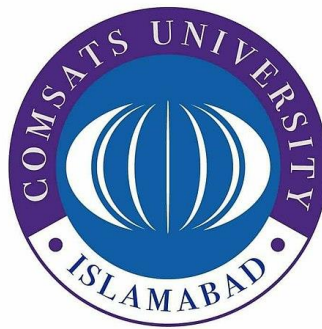


Title of the Project

Final Year Project Proposal

Session 20XX-20XX

A project submitted in partial fulfillment of the
requirements for the Degree
of
BS in Computer Science / Software Engineering / Artificial Intelligence



Department of Computer Science
COMSATS University Islamabad (CUI), Lahore Campus

Project Registration

Project ID (for office use)					
Type of project	☐ Traditional ☐ Industrial ☐ Continuing				
Nature of project	☐ Development ☐ Research & Development				
Sustainable Development Goals(SDGs)	☐ Good Health and Well-Being ☐ Quality Education ☐ Industry, Innovation, and Infrastructure ☐ Gender Equality ☐ Decent Work and Economic Growth ☐ Climate Action				
Area of specialization	☐ Artificial Intelligence (AI) ☐ Blockchain ☐ Cybersecurity ☐ Data Science and Analytics ☐ Game Development ☐ Internet of Things (IoT) ☐ Natural Language Processing (NLP) ☐ Mobile App Development ☐ Web Development				
Project Group Members					
Sr.#	Reg. #	Student Name	Email ID	Phone #	Signature
(i)	Group Leader				
(ii)					
(iii)					
Declaration: All members of this FYP group have successfully completed the prerequisite courses required for FYP-I, in accordance with their respective degree requirements. For students enrolled in BS Computer Science/ Software Engineering/ Artificial Intelligence the required pre-requisite courses are: • CSC241 – Object Oriented Programming • CSC270 – Database Systems • CSC291 – Software Engineering					

Plagiarism Free Certificate

This is to certify that, I am _____ S/D/o _____, group leader of FYP under registration no CUI / _____ /LHR at the Computer Science Department, COMSATS University Islamabad, Lahore Campus. I declare that our FYP proposal is checked by our supervisor and the similarity index is _____% that is less than 20%. The similarity index and AI Plagiarism is within the acceptable limit specified by HEC. The reports are attached herewith as Appendix A and Appendix B.

Date: _____ Name of Group Leader: _____ Signature: _____

Name of Supervisor: _____

Co-Supervisor (if any): _____

Designation: _____

Designation: _____

Signature: _____

Signature: _____

Previous Project Objectives and Features

This section is only **MANDATORY FOR CONTINUING PROJECT** and must highlight the objectives and features of the previous project and provide clear comparison with objectives and features of the proposed project, showing significant differences for it to be considered as a complete one year FYP.

1. Project Description

This section is **MANDATORY** and will introduce the project and explain the context by explaining the background to the work you propose and describe the purpose, motivation or relevance of the project. You must describe why the problem is important and must convey why you want to take this project and what you hoped to learn from your project. The goal of the project and the main focused objectives of the project are discussed in this section. You can focus on answering the following questions. What is background to the project? Why is the problem being solved worth solving? What are the existing approaches (if any) that solve this problem and what do they lack? How will you address those issues and what do needs to be achieved to deliver the project? You need to demonstrate your understanding of the practical problem at hand and the potential results that are expected.

The description in this section must answers the questions given in the previous paragraph. It should give details of specific goals to be achieved and precise characterizations of the methods used in the process. You should identify the main sub-tasks that make up your complete project and outline the algorithms or techniques to be adopted in completing them. A project description should give criteria that can be used at the end of the year to test whether you have achieved your goals and should back this up by explaining what form of evidence to this effect you expect to include in your dissertation. The project description section should comprise **A MINIMUM OF 500 WORDS**.

Here is the structure (rough idea) to write project description of 1 to 2 pages maximum.

- Domain background - 20 lines 2 paragraphs
- Motivation and significance of the project with reference(s) - 10 lines 1 paragraphs
- Objectives and scope of the project (what is included and what is not) 10 lines 1 paragraphs
- Proposed solution - 10 lines 1 paragraphs
- Results or outcomes - 10 lines 1 paragraphs

2. Problem Statement

This section is **MANDATORY** and highlights the underlying issue or research gap that drives the need for a particular study or solution. It explains why the problem is important, what challenges exist in the current approaches, and how addressing this issue can create value or improvement. In essence, it identifies the limitations of existing methods, technologies, or practices and emphasizes the significance of overcoming them. A well-written motivation/problem statement sets the context by linking the problem to real-world applications, demonstrating its relevance, and justifying why the proposed work is necessary. It provides a clear rationale that not only defines the scope of the study but also attracts interest by showing the potential impact of solving the problem. A problem statement should comprise a **single paragraph having not more than 10 lines**.

3. Project Objectives

This section is **MANDATORY** and lists the goal and the main focused objectives of the project. The proposal must clearly state well-defined objectives that can be directly linked to measurable final outcomes of the project. Objective statements should be precise and to the point, each objective maximum of two lines. For example, the project objectives may start with the following keywords:

- To collect the dataset...
- To develop a system/platform..
- To introduce an approach...
- To build an architecture.....

4. Related work

This section is **MANDATORY** and will provide literature survey of the topics related to the proposed project. The main reasons for using information from external sources are either to complement the contents of the work with relevant data or to provide a different opinion on the issue stated. In both cases, it means adding credibility to the project, making it look more trustworthy and complete. You should create an analytical review of the previous scientific works on the topic or explore related development. You have to provide the historical background and inform the reader about current achievements in research/development. Using only proven credible sources from latest journals, conferences, and books accepted in academic circles is vital and a short overview of these sources must be provided in this section. All sources used have to be **APPROPRIATELY CITED THROUGH THE TEXT**. It is necessary to study the structure of such work to write a strong final year project proposal. Moreover, a clear scheme will make a formal proposal easier to read.

The Reference section is situated at the end of the paper. It should follow **IEEE references style**, available in Microsoft word as shown in Figure 1, and display sources in the order in which they first appear in the document. Proper format should be following when citing journal articles, conference papers, weblinks, technical reports etc.

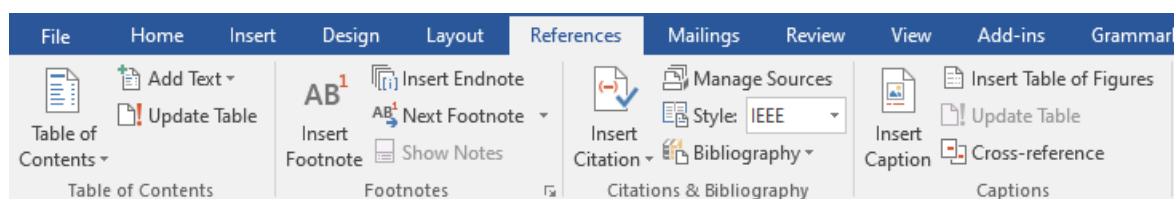


Figure 1. Word references tab.

Sample Text: For example Lau et. al. [1], explains the use Of VSP resource rooms to support group work in a learning environment. Nakanishi et. al. [2], propoosed FreeWalk: a supporting casual meetings in a network. For more details on how to add citations in a word document, you can visit the following links [3], [4].

5. Proposed Methodology and Architecture

This section is **MANDATORY** and provides insight into what methodology you will employ in the development of the envisioned system. It is the systematic, theoretical analysis of the methods applied to your study. It can comprise step-by-step procedures, flowcharts, block diagrams or algorithms of the proposed system.

6. Project Outcomes

This section is **MANDATORY** and should clearly describe what the project will actually produce and achieve by its completion, answering the question of what will exist and what will have changed once the work is done; it must be concrete and verifiable rather than vague or aspirational. Students should list the tangible deliverables of the project (such as a working prototype, dataset, report, algorithm, or tested model), describe the functional or technical outcomes tied directly to the stated objectives (e.g., specific performance levels, capabilities, or tasks the system will perform) in **Section 3**, and define measurable success criteria such as metrics, benchmarks, or evaluation methods that make the outcomes testable rather than subjective. Where relevant, students may also

note academic or learning outcomes gained through the project, as well as the broader impact or significance of the work and who stands to benefit from it. Throughout, students should use clear and measurable language rather than vague terms like "improve" or "enhance," ensure outcomes are realistic and achievable within the project's timeline and resources, align each outcome with a corresponding objective, and avoid simply restating objectives as outcomes.

7. Team Roles and Responsibilities

This section is **MANDATORY FOR GROUP PROJECT**. Please mention roles and responsibilities of each team member, mentioning individual tasks each member will be responsible for, in the table indicating individual tasks and justify the one-year effort of two or three students. The expected individual task list with the tentative plan is given in Table 1 below.

Table 1. Individual Tasks

Team Member	Activity	Tentative Date
<Name 1>	Activity 01	<Date>
	Activity 02	
	Activity 03	
	<Activity n>	

It is also **MANDATORY** to provide a **GANTT CHART** to clearly illustrate the project schedule. As per individual tasks mentioned in Table 1, the Gantt chart shall graphically represent which tasks would be done in which duration, i.e., starting date, end date. What tasks shall be done in parallel, and what tasks shall be done in series? Duration of individual task. (View few samples from the internet before making your own to get ideas).

8. Tools and Technologies

This section is **MANDATORY** and provides a list of tools and technologies that the FYP group is planning to use in the project.

9. References

This section is **MANDATORY** and you must provide references (IEEE style) when appropriate to justify your study. These references must be cited in the text (e.g., Project Description/Related Work), also cross check if the reference is same as cited in the text. You must display sources in the order in which they first appear in the document. Proper format should be following when citing journal articles, conference papers, weblinks, technical reports etc. For R&D projects: minimum references **should be 10**, and for development project minimum references **should be 6**.

- [1] L. M. Lau, J. Curson, R. Drew, P. Dew and C. and Leigh, "Use Of VSP Resource Rooms to Support Group Work in a Learning Environment," *Journal Paper Example*, vol. 99, p. 2, 1999.
- [2] H. Nakanishi, C. Yoshida, T. Nishimura and T. and Ishida, "Freewalk: Supporting casual meetings in a network," in *Proceedings of the 1996 ACM conference on Computer supported cooperative work*, Boston Massachusetts USA, 1996.
- [3] G. Coach, "How To Reference In Microsoft Word 2025: Full Tutorial With Examples Of Citations & Bibliography," 2024. [Online]. Available: <https://www.youtube.com/watch?v=wnviwr-CF2w&t=416s>. [Accessed 23 6 2025].
- [4] M. Inc., "Add citations in a Word document," [Online]. Available: <https://support.microsoft.com/en-us/office/add-citations-in-a-word-document-ab9322bb-a8d3-47f4-80c8-63c06779f127>. [Accessed 23 6 2025].

Appendix A

Include here the 1st page of Turnitin Report (MANDATORY)

Every supervisor has his/her own Turnitin account. If not, then supervisors are requested to get the account from Library as soon as possible.

Appendix B

Include here the 1st page of AI Report generated through Turnitin
(MANDATORY)

Every supervisor has his/her own Turnitin account. If not, then supervisors are requested to get the account from Library as soon as possible.

General Guidelines for Project Proposal Writing

Important note about writing a proposal: Proposals are informative and persuasive writing because they attempt to educate the reader and to convince the reader the importance of the project to be conducted. The goal of the writer is to make the reader believe that the provided solution is practical and appropriate. In persuasive proposal writing, the case is built by demonstration of logic and reason in the approach taken in the solution. The effectiveness of your proposal will depend on your ability to explain the nature, context and scope of your project.

This document provides general guidelines for your project proposal writing. Along with these guidelines, you are provided with a separate proposal template. This template is a style guide for final year project proposal document. **These styles should be used without modification or replacement.** Your proposal must follow proper formatting, citation, and clarity standards provided in this guideline. All the sections that are **MANDATORY** for your project proposal are listed at the end of this general guidelines document. It is recommended that you must follow the listed order to ensure logical flow to your writing.

While this may well sound like a rather prescriptive approach to proposal writing, it is introduced for the following reasons.

1. The style guide allows students to focus on the critical task of producing clear and concise content, instead of being distracted by font settings and paragraph spacing.
2. By providing a comprehensive style guide the school benefits from a consistent and professional look to its internal project documentation.
3. The style guide also allows the school to properly control the size restrictions that are placed on the project documentation.

Before starting write up, first, confirm that the correct template has the correct paper size. This FYP proposal template has been tailored for output on the **A4 PAPER SIZE**. Specify paper width according to dimensions shown in Figure 2. Throughout the document, the font face “Times New Roman” **MUST BE** used for the text and font size of 11 **MUST BE** used. Line spacing for the entire document **MUST BE** 1.0 and paragraph spacing between two paragraphs within a section **MUST BE 0 pt “Before” and 6 pt “After”**. Distribute paragraphs text evenly between both margins to give the document a clean and crisp look, and this task can be performed by **using justify paragraph option in MS word**.

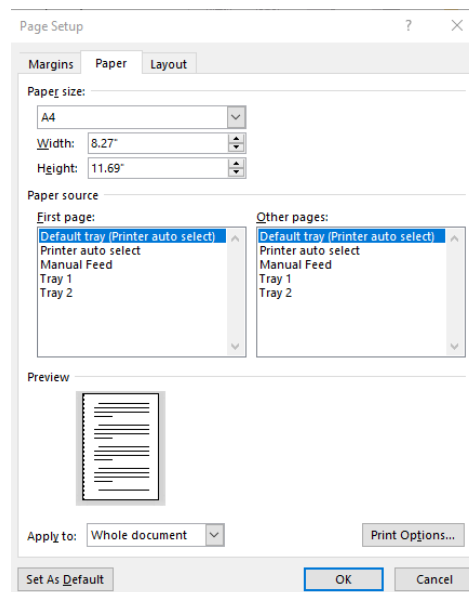


Figure 2. Paper size settings.

Ensure page margins are according to the margin values shown in Figure 3.

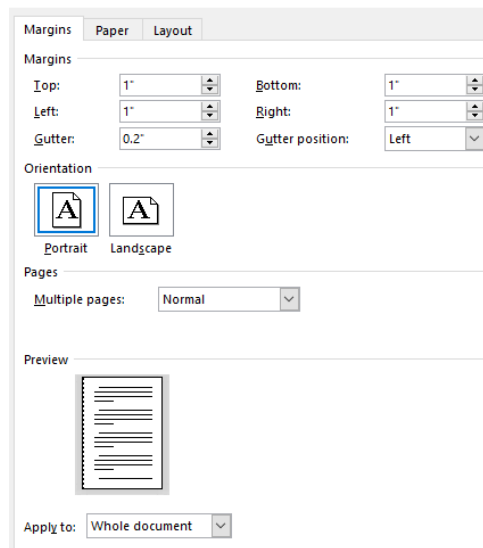


Figure 3. Template page margins.

It is also recommended that all proposals use headers for each section with the **MAXIMUM** of 2 level subheading. Subheading level more than 2 is strongly discouraged.

10. Template Heading (Heading-1)

Each section should start with heading font size 16, bold, and font face “Times New Roman”. First, outline the proposal in different sections and try to include relevant heading. If it is required to split the section into sub-headings.

10.1 Selecting a Sub Heading (Heading-2)

The heading font for sub-heading should be font size of 14, bold, and font face “Times New Roman.

11. Figures and Tables

Use the following instructions to create tables and figures. All the figures and tables must be cross-referenced in the text. For example, Figure 2 refers to the to the paper size, and margins of the document. Similarly, all tables should be cross-referred in the text. For example, Table 1 shows links to literature review sources. Figure and Table labels and captions should be font size 10, “Times New Roman”. Figure captions should be **below the figures**; table captions should appear **above the tables**. Insert figures and tables after they are cited in the text. Use words rather than symbols or abbreviations when writing Figure labels to avoid confusing the reader. Use the abbreviation “Figure 2” and “Table 1”, even at the beginning of a sentence. Ensure that the figure and table are within the page margin mentioned in Figure 3.

Table 2. Literature review sources

Source	URL
Springer Links	http://www.springerlink.com
IEEE Xplore	http://ieeexplore.ieee.org
Science Direct	http://www.sciencedirect.com
Google Scholar	http://www.scholar.google.com
ACM Digital Library	http://dl.acm.org/

12. References

The Reference section is situated at the end of the document. It should follow **IEEE references style**, available in Microsoft word as shown in Figure 1, and display sources in the order in which they first appear in the document. Proper format should be following when citing journal articles, conference papers, weblinks, technical reports etc.

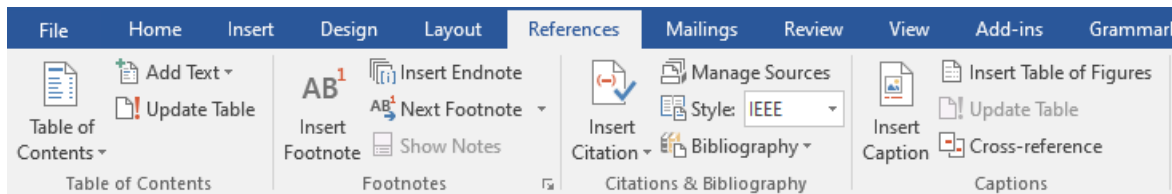


Figure 4. Word references tab.

All sources used have to be **APPROPRIATELY CITED THROUGH THE TEXT**. It is necessary to study the structure of such work to write a strong final year project document. Moreover, a clear scheme will make a project document easier to read.

The references used in the document must be cited in the text (e.g., Project Description/Related Work), also cross check if the reference is same as cited in the text. You must display sources in the order in which they first appear in the document. For R&D projects: minimum references **should be 10**, and for development project minimum references **should be 6**.

We have not defined a specific style for the bibliographic entries that you will need at the end of your proposal. Instead, we strongly suggest the use of a numbered list style for your bibliography, with citations as shown in the sample text below.

Sample Text: For example Lau et. al. [1], explains the use Of VSP resource rooms to support group work in a learning environment. Nakanishi et. al. [2], propoosed FreeWalk: a supporting casual meetings in a network. For more details on how to add citations in a word document, you can visit the following links [3], [4].

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13. Failure to Submit FYP proposal on Time

Any student or group who fails to submit a project proposal on time breaches regulation and will not be registered in FYP-I.

Mandatory Sections for FYP Proposal

All proposals should have all of the following **MANDATORY** sections. It is recommended that you must follow the listed order to ensures logical flow to your writing.

- Project Description
- Problem Statement
- Project Objectives
- Related Work
- Proposed Methodology and Architecture
- Project Outcomes
- Team Roles and Responsibilities
- Tools and Technologies
- References