

# ***Guidelines for Semester Project Proposal***

**Kathmandu University**  
**Department of Computer Science and Engineering**  
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**A Project Proposal**  
**on**  
**“Project Title”**  
**[Code No:.....]**  
**(For partial fulfillment of \_\_\_\_\_ Year/Semester in Computer Science/Engineering)**

**Submitted by**  
**Name(Roll No.)**  
**.....**

**Name(Roll No.)**

**Submitted to**  
**(Respective Project Coordinator)**  
**Department of Computer Science and Engineering**

**Submission Date:**

## **Abstract**

It should include summary of what you are intending to do as project work. It should answer three main questions. What are you doing? Why are you doing? and How are you doing? The abstract should cover exact problem and how your work is going to address those issues.

Abstract provides description about the project in minimum possible words. Abstract should contain 150-200 words as follows:

Background (1 to 2 sentences)

Purpose/Aim (1 to 2 sentences)

Procedure and Method/Tools (1 to 2 sentences)

Expected Outcome (1 to 2 sentences)

Conclusion (1 sentence)

Recommendation (1 sentence)

**Keywords:** (keywords of your project that describe your project) Foreg. *Procedural programming, file, information.*

## **Table of Content**

The page number from abstract to Acronyms should be in Roman number. Actual page numbering of document starts from first chapter of the document which in introduction section.

## List of Figure

It should give information about all the figures used in the documentation. Figures and table should be given information about its contents.

For e.g.

Figure	Page no.
1.1 Computer Architecture	5
4.2 Gantt Chart	15
....	
.....	

Here 1.1 specifies, it is a first figure of chapter 1, and 3.2 specify it is second figure of chapter 3.

## **List of Table (if any)**

It should give information about all the tables used in the documentation. Figures and table should be given appropriate title.

(Similar to that **of List of Figures**)

## **Acronyms/Abbreviations (if any)**

The list all abbreviations used in the documentation is included in this section.

**For.e.g**

<b>VR</b>	<b>Virtual Reality</b>
<b>RAM</b>	<b>Random Access Memory</b>
<b>DMA</b>	<b>Dynamic Memory Allocation</b>

# **Chapter 1: Introduction**

Introduction heading includes following subheading. The font size for title should be 16 bold, heading 14 bold and subheadings 12 bold. Paragraph should contain line spacing of 1.5 with font size of 12. Preferable font type is Times New Roman.

## **1.1. Background**

It should include basic information in the field of project work. What are the recent trends and development on area of the project should be briefly discussed in this topic.

It should contain at least 2-3 paragraphs, having 200-400 words.

**It should include:**

Recent development in the field

Drawbacks and significance of existing works

## **1.2. Objectives**

What is basic purpose of your project. List the objectives of your project work in bullets (not exceeding 4).

## **1.3. Motivation and Significance**

Motivation to choose the topic, importance and contribution of your project work is included in this section.

Why did you choose this particular topic as your project ?

How does the work address drawback of existing system?

How is it different from the existing works?

It consists of short paragraph about features of your project work. A brief introduction of features that project is going to address, helps to make the project proposal more robust.

## **Chapter 2: Related Works/ Existing Works**

It focuses on discussion of similar types of other task/projects, that has been performed earlier.

It should include recent projects, works, website, etc. as reference.

Referencing should be in APA format.

According to (John,2012), Management System should include components of...

Thapa and Shrestha (2010) have done similar project where they have implemented...

The Minesweeper (Rai & Parajuli, 2012), has features like....

The similar kind of project work(mention authors along with their works) were performed earlier which has properties...

In writing this section , your purpose is to convey to your reader what knowledge and ideas have been established on a topic, and what their strengths and weaknesses are. (D Taylor, “The Literature Review: A Few Tips on conducting it”). It also should include previous work, comparison between works, drawbacks and current work.



## **Chapter 3: Procedure and Methods**

It includes explanation of procedure that you intend to perform during the project work. It may include algorithms, flowcharts, System Diagrams which gives general idea about how you are planning to approach different procedures during the project work.

It may contain 1 to 2 paragraphs. A Diagram is preferred to explain your procedure or your proposed system.

## **Chapter 4: System Requirement Specification**

### **4.1. Software Specification**

**4.1.1. Front End Tools:** Information about OS, Programming platform and other APIs

**4.1.2. Back End Tools:** Information about used technique to store/manipulate data (mysql, xml, etc.)

### **4. 2. Hardware Specification**

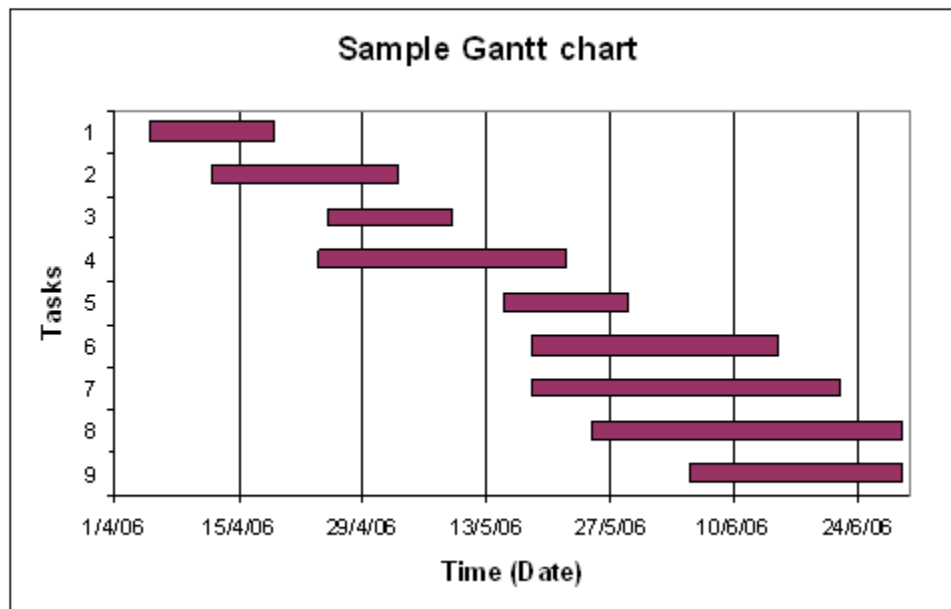
It contains description any additional hardware that may be required for the project. It also gives information about required minimum configuration of system to run the work smoothly.

## Chapter 5. Project Planning and Scheduling

It should give general idea on how you are planning to allocate your time/resources for different process of your project development.

Gantt chart is essential to represent your time allocation for the project. GANTT chart with activities and milestones is included in this section.

A **Gantt chart** is a type of bar chart that illustrates a project schedule. Gantt charts illustrate the start and finish dates of the terminal elements and summary elements of a project. Terminal elements and summary elements comprise the work breakdown structure of the project. (wiki)



**Fig4.1: Sample Gantt Chart**

### Tasks:

1. Problem identification and requirement gathering
2. Problem analysis
3. Design
- ...

## **APPENDIX**

An **appendix** typically includes data and supporting documents used by the writer to develop the report. Screenshots which assist in your planning and works are also included in this section.

### **Reference**

It is a list of books, resources, internet links, magazines, research papers etc. that help your work as reference during your project duration. Reference should be included in APA format. APA format for reference and citation can be generated in different word processing software, including Microsoft Word.

For eg.

Rai, B., & Parajuli, K. (2012). *The Minesweepers*.

### **Bibliography (Optional)**

It includes listing of the books, Internet sources and other similar works that you take use indirectly in designing, carrying out, and understanding your project.

Bibliography should be included in APA format.