**Major Project**

**Year: BCT -IV/I**

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**Abstract:**

An abstract is a one-paragraph summary of a project. Whatever kind of project you are doing, your abstract should provide the reader with answers to the following questions: What are you doing? Why is it important? How will you do it? What will you use to demonstrate your conclusions? What are those conclusions? Abstract includes:

* The problem statement
* The project’s objectives
* Methods used
* Results and conclusion
* Keywords

**Background:**

The background study for a project includes a review of the area being researched, current information surrounding the issue, previous studies on the issue, and relevant history on the issue. It must explain the importance of the topic.

**Problem Statement:**

A single statement that defines the issue or problem investigated, accompanied by other paragraphs that further elaborate on the issue or problem of the existing system.

**Objectives:**

Indicate the expected outcomes of the project, preferably in measurable terms. This shows what you will do and for whom. When the project is completed, you will be able to evaluate it and determine whether the project succeeded or not in achieving its objectives. Use action verb while writing objectives. For example, to develop, to discover, to identify, etc

**Literature Review:**

Identify literature you reviewed, that justifies you conducting the current project from prior research or project. You should be able to list similar work that have already been done and the outcome of those works. Literature review includes:

* Related Research
* Existing theories you intend to use
* Conceptual framework

References should be given in IEEE format while citing the algorithms, principles, theories, results and outcome of previous work etc.

**Feasibility Study:**

A feasibility study evaluates the project's potential for success. Check the feasibility of your project in terms of financial feasibility, technical feasibility, schedule feasibility, operational feasibility and resource feasibility.

**Methodology:**

Under this section, you precisely explain the steps that you intend to follow to accomplish the project. Use block diagram to explain it. The description of one’s methodology should not be so generic as to apply to any project; it should be specific, showing particularly how you are going to handle each stage and area. It also includes:

* Data collection techniques
* Method of analysis
* Issues of reliability and validity
* Data analysis and interpretation

**Schedule (Gantt chart):**

A Gantt chart is a type of [bar chart](https://en.wikipedia.org/wiki/Bar_chart) that illustrates a [project schedule](https://en.wikipedia.org/wiki/Schedule_(project_management)). Gantt charts illustrate the start and finish dates of the summary elements of a [project](https://en.wikipedia.org/wiki/Project).

**Hardware/software requirements:**

List the required hardware/software that the project will use

**Cost Estimation:**

Include this part to show the overall cost of the project only if you are using any hardware.

**Expected Outcomes:**

State about what may be the output of your project

**References**

**Use IEEE format. For example;**

**Book**

Author(s). Book title. Location: Publishing company, year, pp.

**Example:**

[1] W.K. Chen. Linear Networks and Systems. Belmont, CA: Wadsworth, 1993, pp. 123-35.

**Book Chapters**

Author(s). “Chapter title” in Book title, edition, volume. Editors name, Ed. Publishing location: Publishing company, year, pp.

**Example:**

[2] J.E. Bourne. “Synthetic structure of industrial plastics,” in Plastics, 2nd ed., vol. 3. J. Peters, Ed. New York: McGraw-Hill, 1964, pp.15-67.

**Article in a Journal**

Author(s). “Article title”. Journal title, vol., pp, date.

**Example:**

[3] G. Pevere. “Infrared Nation.” The International Journal of Infrared Design, vol. 33, pp. 56-99, Jan. 1979.

**Articles from Conference Proceedings (published)**

Author(s). “Article title.” Conference proceedings, year, pp.

**Example:**

[4] D.B. Payne and H.G. Gunhold. “Digital sundials and broadband technology,” in Proc. IOOC-ECOC, 1986, pp. 557-998.

**Papers Presented at Conferences (unpublished)**

Author(s). “Paper’s title,” Conference name, Location, year.

**Example:**

[5] B. Brandli and M. Dick. “Engineering names and concepts,” presented at the 2nd Int. Conf. Engineering Education, Frankfurt, Germany, 1999.

**Standards/Patents**

Author(s)/Inventor(s).“Name/Title.” Country where patent is registered. Patent number, date.

**Example:**

[6] E.E. Rebecca. “Alternating current fed power supply.” U.S. Patent 7 897 777, Nov. 3, 1987.

**Electronic References**

**Books**

Author. (year, Month day). Book title. (edition). [Type of medium]. Vol. (issue). Available: site/path/file [date accessed].

**Example:**

[7] S. Calmer. (1999, June 1). Engineering and Art. (2nd edition). [On-line]. 27(3). Available: www.enggart.com/examples/students.html [May 21, 2003].

**Journal**

Author. (year, month). “Article title.” Journal title. [Type of medium]. Vol. (issue), pages. Available: site/path/file [date accessed].

**Example:**

[8] A. Paul. (1987, Oct.). “Electrical properties of flying machines.” Flying Machines. [Online]. 38(1), pp. 778-998. Available: www.flyingmachjourn/properties/fly.edu [Dec. 1, 2003].

**World Wide Web**

Author(s)\*. “Title.” Internet: complete URL, date updated\* [date accessed].

**Example**

[10] M. Duncan. “Engineering Concepts on Ice. Internet: www.iceengg.edu/staff.html, Oct. 25, 2000 [Nov. 29, 2003].

**Report format guidelines**

Your report should meet following standards:

**Font Name**: Times New Roman

**Font Size: 12 pt (for normal text)**

**Left Margin**: 1.5 inch

**Right Margin**: 1 inch

**Top Margin**: 1 inch

**Bottom Margin**: 1 inch

**Header and Footer**: 0.5 inch

**Line Spacing**: 1.5

**All the text should be justified.**

Heading should be in following standard

**1. Heading1 (16 pt, Bold)**

**1.1 Heading2 (14 pt, Bold)**

**1.1.1 Heading3 (13 pt, Bold)**

**1.1.1.1 Heading4 (12 pt, Bold)**

**Numbering sections, subsections, equations, figures etc.**

It is common practice to use decimal numbering in the project. If the chapter number is 2, the section numbers will be 2.1, 2.2, 2.3 etc. The subsections in section 2.2 will be numbered as 2.2.1, 2.2.2 etc. Unless essential, it is not necessary to use numbers to lower levels than three stages.

Similarly, it is useful and convenient to number the figures chapter wise. The figures in chapter 4 will be numbered as Figure 4.1: Figure Name, Figure 4.2: Figure Name etc. This helps you in assembling the figures and putting it in proper order. Similarly, the tables are also numbered as Table 4.1: Table Name, Table 4.2: Table Name etc. All figures and tables should have proper captions. Usually the figure captions are written below the figure and table captions on top of the table. All figures should have proper description by legends, title and any other information to make the figures self-explanatory.

The same numbering scheme can be used for equations also. Only thing to be remembered is that references to the figures are made like Figure 4.2: Figure Name and equations as Eqn (5.8).

Chapters – The main text will be divided into several chapters and each chapter may be further divided into several divisions and sub-divisions as per the requirement.

**KATHFORD INTERNATIONAL COLLEGE OF ENGINEERING AND MANAGEMENT**

Balkumari, Lalitpur

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A

Major Project Proposal

on

**“Project Title Here”**

[Subject Code: 123456]

**Project Members**

Abc Surname (XX/BCT/20 XX)

Acb Surname (XX/BCT/20 XX)

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**DEPARTMENT OF COMPUTER AND ELECTRONICS & COMMUNICATION ENGINEERING**

**LALITPUR, NEPAL**

**DECEMBER, 2018**