

TRIBHUWAN UNIVERSITY

Institute of Engineering

Pulchowk Campus

PROPOSAL

TO ESTABLISH A

COMPUTER ENGINEERING COLLEGE

IN NEPAL

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**PROPOSAL**  
**FOR ESTABLISHING A**  
**COMPUTER ENGINEERING COLLEGE**

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# ABSTRACT

There are currently a number of engineering colleges under government supervision and some under the private sectors. Here, we are proposing to open a private Computer Engineering College under the affiliation of TU. Unlike other colleges, this college will be dedicated to Computer Engineering education in particular.

The idea sprouts from the underlying absence of engineering school in the country in a time where the world is accelerating in the field of computing technology. We have the manpower, but the industry-level skill set needed seems to be lacking in the manpower. We are positive that the combination of hand-picked, well-trained faculty and world-class infrastructure will cultivate a good technology-focused culture and quality manpower for the industry.

Starting from the very first semester, the curriculum will be focused on related field. A good amount of concentration

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# 1.0 Introduction

In the present day, information technology has revolutionized the way we deal with every-day chore. In the light of rapid changes with the use of IT, many tools, technologies and systems have been produced and invented. The development of technologies is directly dependent on skilled manpower for which a good institution is inevitable.

This project is concerned with establishment of an engineering college in the Nepal. An unconventional aspect of the project is that it directly attacks the lack of and need for a computer technology focused institution. With the hope of helping the government to fulfill the requirement of the technical manpower, we plan to establish the institution in Chitwan. It will be a dedicated computer engineering college. Every year, there will be limited number of seats and the course structure will be based on that of the standard Tribhuvan University, but more focused on computer engineering and technology.

## 2.0 STATEMENT OF PROBLEM

Computer hardware and software are widely used and have dominated the present world. In the light of the rapid changes with the use of IT, there are many tools, technologies and systems that have been produced and invented. Therefore, computer engineering is an equally important profession like other major professions. Computer engineers have a large scope in this modern world as compared to other engineering disciplines and there is a high demand of quality computer engineering manpower in the market. So there is a huge need of computer engineering institution in the country.

In the present context, there are six universities in Nepal: Tribhuvan University, Kathmandu University, Pokhara University, Purbanchal University, Nepal Sanskrit University and Lumbini

Baudhdha University. Tribhuvan University is the most popular and oldest University of Nepal and is also well-recognized by international institutions. For similar reasons, the university has been the first choice of students since long. Under this university, there are only a few governmental Engineering colleges and others are private colleges. This number is not very sufficient considering the present demand of engineers. Almost all of these engineering colleges are focused on general engineering disciplines, covering courses like mechanical, civil, computer and the like. They have limited number of seats which are again divided into different engineering courses.

A separate Computer Engineering College can be advantageous in many ways. As it is entirely for computer engineers, the environment will be productive and inspiring to the aspiring students. The entire college studying the same course will reduce the variety of equipment and lab materials required. So focus can be given towards course related facilities and this will also reduce the cost of the course. It will be possible to provide better education at a more affordable price.

## 3.0 OBJECTIVES

### 3.0.1 GENERAL OBJECTIVE:

The general objective of this proposal is to establish a committed Computer Engineering College in Nepal.

### 3.0.2 SPECIFIC OBJECTIVES:

- To establish an engineering institution dedicated to Computer Engineering affiliated to Tribhuvan University.
- To inspire establishment of similar institutions

- To contribute towards producing skilled, world class labor force of Computer Engineers for the emerging domestic and international IT market
- To provide the competitive infrastructure and necessary equipment required for practicals included in the curriculum.
- To have strong research programs for the faculty as well as interested students to expand research opportunities.
- To increase the digital literacy rate of Nepal.
- To provide employment facilities to skilled professors, lecturers, teaching staffs, librarians, accountants, administrators, and other faculty.
- To include electives as per students' interests
- To provide quality education at a more affordable price.

## 4.0 PLAN OF ACTION

There has been a considerable increase in interest of the students in computer engineering fields. There are number of engineering colleges providing the platform for the students to develop as the engineers. Number of articles and reports have been published describing the role of engineers in the development of the country.

The first milestone will be development of necessary infrastructure. This will include the building of the classroom with digital teaching system. We are planning to provide each classrooms with a projector, a digital screen along with the rudimentary basics. There will be well-ventilated rooms, labs and presentation halls for extra activities.

The primary goal is to produce qualified computer engineers. To accomplish this goal, we will rely on hand-picked, world class faculty. We are planning to provide students with idea room to demonstrate and implement their new ideas. We will also be

having a library with digital managements system with course books as well as many IT related books, magazines, research reports, etc. There will be book bank system for providing semester-wise course books and card system for issuing other books. Highly qualified and educated professors and lecturers will be appointed for each subject. People with computer knowledge will be hired for the college administration and accounting system so that they can deal with digital database management.

## 5.0 BUDGET

We take pride in offering quality education with practical implementation at affordable price. To execute on the plan, we need to have required sources of money. The budget required for the establishment of the computer engineering college is estimated as:

S.N.	Particulars	Cost estimation in lakhs
1	Building Construction	250
2	Furniture	25
3	Lab Equipment	30
4	Computers	50
5	Electricity	1
6	Library	25
	Total	381

## 6.0 TIME MANAGEMENT

We expect the project to be complete within two years. At first the business partners will be giving their decisions on expenditure and budget will be planned out. The decision for budget allocations is expected to be made within a month and the further processing will be focused on plan of budget implementation which shall take around two months. The plan will thoroughly be reviewed by business partners and suggestions will be carried out accordingly. The employees and other workers will be hired and they will be carrying out their part of mechanisms accordingly to complete the project within the scheduled period of time.





## 7.0 SUMMARY

Although, there are many engineering colleges running in the country with computer engineering as one of their major streams, still there is a room for a separate and dedicated computer engineering college that contributes to skilled manpower in the related field. We pass this proposal with a view point to allocate greater number of seats and to provide top-notch education to the students who are keen to opt for computer engineering as their carrier.

## 8.0 CONCLUSION

We are presenting this proposal of constructing a separate Computer Engineering College in Nepal to produce highly skilled Computer Engineers for the renowned IT companies and also for research works. This college will be affiliated to TU and will run on private sectors. This college will offer quality education at a cheaper price than other private colleges with all the facilities required for the curriculum. As this college is offering only computer engineering course, there will be more number of seats and every year more Computer Engineers will be graduating from Nepal. We hope our proposal will be accepted and we expect approval and support from the government so that we can soon start working on our project. The plan will be implemented by first developing the infrastructures required for the college and then appointing teaching and other staff as described above.