**Introduction**

NCIT, a pioneer private institution providing engineering education in Nepal, is renowned for excellence in teaching & research, while maintaining close and mutually beneficial links with various sectors. The College provides excellent higher education opportunities and nurtures individual talent using an applicable knowledge base that fully supports ongoing social changes and economic advances. NEXT is an annual event organized by the students. It is a nationwide technological festival that acts as a platform for bright and eager minds to express their ideas and vision in technology. This event ends with a 3-day long exhibition Festival. This is its 1st edition.

Logic Battle (programming competition) of NEXT is targeted for little more advanced participants than in previous competition specially the one having good knowledge of data structure and algorithm. In short, this competition will be a combination of a workshop (if possible)and programming competition mainly aiming to deepen the language of choice of students and to improve the logical addressing of participants towards the problem. The programming competition is expected to be conducted between the group of participants, each group containing 2-3 members. The competition will end with judges selecting the winners and awarding them.

**Objectives**

1. To give participants a brief insight on various data structures and their application.
2. To improve problem solving skills.
3. To explore programming skills of participants.

**Participants**

Logic Battle mainly plans to aim engineering students and engineers as participants. The participants are expected to have minimal knowledge on data structure and algorithms.

**Methodology**

The Logic Battle is composed up of two events, workshop (according to feasibility) and, the coding competition. Call for participation will be made through social media and candidates will be chosen in the first come first serve basis through Google registration form. The date and time of the event will be mailed to respective groups and participants once the registration is confirmed.

* **Workshop**

The workshop is the first phase of the Programming Competition that will be conducted for two consecutive days. This part of the competition focuses on enlarging the problem-solving skills of the participants. The participants will take a total of 6 hours of hands-on training from the experts and prepare themselves for the upcoming coding competition.

**Date:**

**Time:**

* **Coding competition**

Coding competition is the main attraction of the Programming competition. It is going to be held on the first day of NEXT fest. Coding competition is the competition between groups of candidates, each containing 2-3 members. Each group will be assigned to solve six programming questions in the time limit of 3 hours. The winner of this competition will be selected by the experts on the basis of the flow of logic (algorithm) and output of the respective programs.

**Coding competition details**

Date:

Time:

Targeted groups: 20

No. of members: max.3

Duration: 1 day

Form charge: Rs. 300 per group

1st price: Rs. 9000

2nd price: Rs.4500

[Certificate of appreciation will be given to 4 groups]

**Space Management**

*Space will be the physics lab block top 2 halls*

**Sponsorship Scheme**

* **Platinum Sponsorship**
* Highest amount sponsors will be known as Platinum Sponsorship.
* Platinum sponsor must pay at least 70%
* *<add benefits that platinum sponsor will receive>*
* **Gold Sponsorship**
* *<add amount and benefits that gold sponsor will receive>*
* Gold sponsor must pay at least 30% of the total cost

**Conclusion**

Programming competition of NEXT will be a golden opportunity for the engineering students to test their programming capabilities and build their knowledge on logical and practical implementation of their coding skills. It will equally help participants to realize the efficacy of teamwork and handling of pressure in the critical time.

**Cost estimate Cost estimate**

1. Banner Printing

i)flex: 1000\*2=2000/-

ii) Pumplate: 100\*20=2000/-

1. Logic examiner

5000\*2=10,000/-

1. Breakfast (participant all)\*

100\*60=6000/-

1. Advertisement

Social media advertise cost not fixed

Travel cost\*: 12 volunteers\*500=6000/-

1. Examiner(2) + Volunteer(5)(fooding)

150\*7=1050/-

1. Certificate of appreciation +winner certificate(1st ,2nd ,3rd and 4th )

150\*6=900/-

1. Winner and 1st runner up prize

Winner -Cup= 9000+600(cup)

1st runner up =4500/-

1. Copy/pen (for designing algorithm)

50\*60=3000/-

1. Water

20\*30=600/-

Estimated total cost: 45650/- excluding the not fixed cost .38 will be 35000/- only, if no food for participants. (If workshop is decided to be given extra charge of 25-27000 could be the probable cost for 2 days)