



**Proposals for
General Secretary Technology**

Technology Students' Gymkhana

Indian Institute of Technology Kharagpur

Academic Session 2023-2024

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21ME10107

Proposal 1: Open IIT Game-Development Event

I propose to introduce a game development event in open IIT which will help students to showcase their creativity, critical thinking, and problem-solving skills.

Overview:

Game Development is the art of creating games and describes the design, development and release of a game. Game design is a useful context for developing computational thinking and digital creativity.

Game development events can provide a valuable learning experience for students and can help them to develop skills that are applicable in a variety of fields, not just the gaming industry. Game Development was also included in the inter IIT- tech meet 11.0 and hence it will give exposure to the students of IIT Kharagpur with hands-on experience in game development, including coding, game design, and 3D modelling.

Implementation:

- The event will be a **team event** with 3-5 members.
- A **workshop** shall be conducted prior to the release of the problem statement which will provide an abstract idea regarding the game development process.
- The problem statement will be released **at least 10 days prior** to the submissions.
- The judging criteria weightage will be as follows:

Parameters	Weightage
Mechanics and Engagement	40%
Completeness	25%
Graphics and User Interface (UI)	35%

Groundwork:

Multiple companies like IGDC, Unity etc. have been contacted and have shown interest in providing a problem statement and also in conducting a workshop related to Game Development. Also final and pre-final year students have been contacted regarding the feasibility and conduction of the event.

Proposal 2: Introduction of “Tech-Treasure Hunt” Event in Kshitij

I propose to introduce an event named “Tech-treasure Hunt” in Kshitij which will be a fun and challenging way to test their knowledge and skills in the field of technology.

Overview:

A technology treasure hunt event will encourage participants to learn about different segments in Technology. They will have to solve real-world technology problems and puzzles, which can help them develop problem-solving skills, critical thinking, and creativity.

The event will be designed in such a manner that it will include different areas of technologies such as coding, financing, blockchain and many more. It will also give exposure to the students to a variety of technology areas, which can help them identify their interests and develop skills in different areas.

Implementation:

- It will be a team event with 2-4 members.
- It will have 2 sets of rounds - qualifying round and the final round.
- The qualifying round will be a virtual round in which there will be a set of questionnaires and the top 15 teams who have answered correctly for the maximum questions in a limited time frame will qualify for the final round.
- The Final round will be an offline round where teams have to be present physically.
- The teams will have been given clues and they have to use their technology knowledge to decipher the clues.

Groundwork:

The events head for Kshitij 2022 and Kshitij 2023 have been contacted and have shown interest in the conduction of this event. Unisource has also been contacted and have shown interest in sponsoring this event.

Proposal 3: Competitive Programming Workshop and Open IIT Competitive Programming contest

I propose to introduce a competitive programming open IIT contest after conducting a workshop on the same. This will help students in improving their programming skills and boost the coding culture on campus.

Overview:

Many students are interested in competitive programming but do not find the proper resources to improve in it. A workshop will help students in improving their programming skills. The Open IIT contest will help the students showcase their skills which they have learnt during the workshop. This will also help in promoting the coding culture in campus and help our students do well in global contests like ICPC

Implementation:

The workshop will be conducted in collaboration with Grimoire of Code

- The workshop will be divided into 3 divisions according to the prior experiences of the participant
- Topics will be taught according to the division to benefit the students.
- Competitive platforms like Codechef can be contacted to collaborate with them

The open IIT contest will be a team event with 2-4 members.

- It will have 2 sets of rounds - qualifying round and the final round.
- The rounds will be conducted on online platforms like Hackerrank in a computer facility like CIC after taking relevant permissions.
- The rankings of the teams will be decided according to the leaderboard which is based on the number of points scored, the time taken to solve the questions and the number of wrong answers.

Groundwork:

Kharagpur Grimoire of Code and Code Club have been contacted regarding the feasibility of the event and they have shown interest in organising the workshop and conducting the contest. Overnite event in Kshitij saw participation of 400+ teams each having 2-4 members. This shows that there is active participation in this domain and this proposal will help students get better at programming.