

Government of West Bengal

Government College of Engineering & Ceramic Technology

73, A.C Banerjee Lane, Kolkata-10

CALL FOR PROPOSAL

GCECT is organizing this competition for promoting innovative spirit and scientific temperament for holistic development of society through the students of our institutes. By means of this competition, the innovations and achievements of individuals shall be recognized and applauded.

Theme of the competition:

According to census 2011, nearly 69% of our population lives in rural areas. Therefore, our rural landscape forms the most crucial component in the economic development of India. The value additions in such a large market offers tremendous potential for societal impact with monetary gains as well. Hence, the overall prosperity of our Nation lies in the development of its rural areas. Hence the problem statement for the competition is “**How to enhance the income of a Village**”.

Objectives:

The main objective of this competition is to recognize and honour innovative work of the students displaying exceptional skills in different Technical streams.

Problem Statement:

The student needs to provide **an innovative solution** to How to enhance the income of Villages through intervention of Technology/Management practice(s).

Under this, students can select any of the following **Sub -Themes:-**

1. **Livelihood** – It may include small scale manufacturing, handicraft, pottery, tourism (desert tourism, water tourism, village tourism), rural infrastructure, rural health care, education (app base technology, e-education in rural area, etc.) and many more.
2. **Waste management** – management of agriculture waste, non-agriculture waste, human waste (on site sanitation), household waste, livestock waste, manufacturing waste, etc.
3. **Crop waste management (parali/para etc.)** — onsite technology/ mechanization for converting into manure and other valuable products etc.
4. **Value addition of Agriculture produce, Agro industry and Rural handicraft**— marketing models (farm to fork), warehouse, packaging, innovation in traditional agricultural practices, etc.
5. **Farm and flock** – Hybrid farming, Polyhouse farming (through simple and cost effective technology), enhancing output from livestock, agriculture, allied activities like sericulture, horticulture, Dairy farming, etc.
6. **Water** – Water resource replenishment and management, low cost water purification, water conservation, rain water harvesting, water recharge, making saline water potable, innovation in irrigation practices, etc.

7. **Land** – land management, soil improvement, land record management, soil nutrient enhancement, organic farm practices, etc.

8. **Energy** – Low cost Renewable energy, Nano and Micro grade energy management, innovation in solar energy, innovation in battery technology, etc.

Important Instructions for submitting the nominations:

1. Team/Students can submit online application at <https://forms.gle/xofcTzYp9vExrPyy6> latest by 21st September, 2019.
2. Each team would comprise maximum of four students. In case, a student wants to submit his/ her application as a single applicant, he/she is permitted.
3. One of the students from each team should act as a Team Leader.
4. The application must contain “Innovation Proposal” of the project/ solution along with personal detail.
5. Inter-disciplinary representation in the team is permitted.
6. One team can submit ONLY one idea.
7. Student should sign and submit No Plagiarism certificate.

Selection Criteria:

Applications shall be short listed based on their conformity to the guidelines and information furnished by nominees for specific categories. The recipients will be finalised based on the scrutiny of the proposals by the jury. Evaluation/ Selection criteria will include novelty of the idea, complexity, clarity and details in the prescribed format, feasibility, practicability, sustainability, scale of impact, user experience and potential for future work progression.

The Council shall shortlist the applications based on above criteria.

2. Teams which covers the following thrust areas or emerging technologies will be given more preference during evaluation:-

- a) Artificial Intelligence
- b) Data Sciences
- c) Internet of Things (IoT)
- d) Quantum Computing
- e) Blockchain
- f) Cyber Security
- g) Robotics
- h) 3D Printing & Design
- i) Augmented Reality (AR)/ Virtual Reality (VR)

3. The shortlisted teams/ applicants shall be called for the Regional Convention to showcase the work done and explain in detail the ‘innovation’ as claimed, to the expert committee or teams shall be asked to submit a 03-05 minutes’ video presentation on their prototype.

Recognition:

1. All winners will receive awards and a Scroll of honour.
2. All the participants will be given participation certificates.

For further details, please contact Shri Partha Halder, Assistant Professor of Mechanical Engineering, or email at partha.jumech@gmail.com

All nominations must be submitted at given link: <https://forms.gle/xofcTzYp9vExrPyy6>