

IUCEE Student Project Competition 2026

With the successful completion of Student Project Competition in 2025, IUCEE is thrilled to announce the same for the current year. The competition is designed to foster innovation, collaboration, and impactful contributions from its dynamic network of student chapters. This competition serves as a platform for you to showcase your chapter's activities, projects, and initiatives that align with IUCEE's mission of enhancing the quality and relevance of engineering education.

We encourage all IUCEE student chapters to participate in this competition, **through their faculty mentors**. This competition will not only provide recognition for your efforts but also serve as a valuable platform for sharing best practices and inspiring other chapters within the IUCEE network.

The competition is open to all active student members of IUCEE-affiliated engineering college chapters.

What is the Competition?

Competition involves a project proposal from each team based on **five Themes** as outlined in the attached **Annexure 1**. Selected projects may be considered for partial financial support by IUCEE Foundation to build working prototypes which need to be demonstrated at **IASF 2027**.

Participation Guidelines

- Selected student projects should be mentored by **faculty members**
- **Strict adherence** is required to themes mentioned in the **Annexure 1**.
- Each faculty can mentor a maximum of 2 projects.
- Maximum 5 projects entries will be allowed per institution
- **Multidisciplinary team** of students (students from min 2 core disciplines - Mech related / Civil related / EE related / ECE related / CS related / Chemical related / Materials related)
- There should be **maximum of 6 students** per project
- There should be at least 2 students from 2nd/3rd year
- It is preferable to have at least 2 student to have completed **Design Thinking course**

Effort required from faculty mentor:

- Mentor students on a regular basis
- Teach the students, tools, process, templates (faculty training will be provided by IUCEE Industry experts)
- Support/Provide resources as required
- Track schedule and milestones of projects

Faculty mentor to Submit project proposal March 28, 2026

Link to submit - <https://tinyurl.com/3rkdytdj>

IUCEE will shortlist the projects based on their alignment to the declared themes, innovative solutions and potential to succeed as a product in the long term. The list of selected projects for further work will be communicated by **April 18, 2026**. IUCEE will provide mentorship to the faculty members of shortlisted projects to develop their idea further and convert them into a demonstrable prototype by **Dec 2026**.

Shortlisted project teams will be invited to bring their prototype and demonstrate it at **IASF 2027** as part of **ICTIEE 2027**. A panel of judges will choose a winner of the competition during IASF & teams will receive suitable recognition & award.

Important Dates

March 28th 2026	Faculty to submit project proposals
April 18th 2026	Communication of shortlisted projects to respective faculty
May 1st week	Orientation and training session on student mentoring to all the faculty mentors
May - Nov 30th	Project execution with milestones Mentoring by faculty mentors (Support by IUCEE Experts)
Dec 15th	Final project closures
Jan 2027	Demonstration and announcement of winners at IASF 2027

-

-

-

Annexure 1

Themes for Project Proposals

Theme 1 : Waste Reduction and Recycling (Recycle/Reuse/Reduce)

Find a decentralized solution for treatment or conversion of waste focusing on 3Rs. Waste can be water from canteen/labs/kitchen, agricultural waste, electronic waste, household dry and wet waste. Pick one specific area, define the problem and offer a solution

Requirements

- Must be an end-user device (Example users : college facility, home owners)
- Waste may be treated/segregated/processed and then converted into useful solutions. These steps must be demonstrated with measurable outputs (e.g. : Water Turbidity/pH level etc.)
- Define safe-use boundaries (what the end product can/can't be used for)
- Device must be easy to use, low maintenance, leak-proof, use safe materials and consume low power

Theme 2 : Decentralized energy management solutions

Find decentralized solutions for managing and reducing energy usage (e.g. : microgrid). The solution may be adopted for small areas such as one hostel block or building, single home or a campus lawn for a specific purpose.

Requirements

- Must use renewable methods of energy generation.
- Scope must be clearly defined : supported loads, autonomy hours, safety protections.
- Demonstrate efficiency / loss breakdown vs baseline
- Modules must be maintainable

Theme 3 : Solutions to care for the disabled and the elderly

Identify a specific problem targeted at assistance to disabled or elderly. Problems that may be addressed could be in the areas of mobility (e.g. : guidance for visually impaired, exoskeleton for specific applications), self-care (e.g. : medicine management, non-invasive self-diagnostic devices) and similar relevant areas

Requirements

- Product must be easy to use with simple user interface
- Must be easily maintainable
- Ability to record usage and analyse

Theme 4 : Drone based climate monitoring system

Develop a drone device which can monitor climate parameters such as air quality in any large area, for example a college campus or a locality in a city. Define the specific purpose of the device and the end-use of collected data.

Requirements

- Device must be able to navigate with remote control or autonomously
- Data must be recorded locally at specific intervals and communicated to a mobile device
- Easily maintainable and user-friendly
- Must adhere to standards on measurements
- Demonstrate accuracy

Theme 5: AI enabled Geographic Information System

Develop a system that captures the infrastructure through earth observation satellites databases and identifies important civic infrastructure such as roads, schools, hospitals, electric sub-stations, water supply, tree cover, slums,...) and provides important benchmarks based on per unit (or equivalent such as thousand) of population for a city.

- The system must be validated using the city level National Sample Survey reports.
- It must be user friendly for use by a municipal corporation employee.
- Must have flexibility to add further to the list of civil amenities and their identification.
- The system should also work on the Geographic information of areas based on drone data.