

F.No. GIKI/FME/DBFC-12/16-17
December 16, 2016

Subject: National Design, Build and Fly Competition (DBFC-12)

I am pleased to inform you that after the success of earlier 11 Design, Build and Fly Competitions, GIK Institute of Engineering Sciences & Technology (GIKI) is once again hosting the **12th National Design, Build and Fly Competition (DBFC-12) scheduled on April 21-23, 2017**. DBFC is a nationwide competition, a joint Venture of HEC & PIEAS, organized by the GIK Institute in collaboration with STEM Careers Programme.

AIAA GIKI Chapter and GIK Institute through the STEM Careers Program and HEC invite undergraduate students to participate in the **12th National Design, Build & Fly Competition**. The competition will provide a real world aircraft design experience for engineering students by giving them the opportunity to validate their analytical skills.

Student teams will design, fabricate, and demonstrate the flight capabilities of an unmanned electric powered, radio controlled aircraft that can best meet the specified mission tasks. The goal is to make a balanced design that possesses good maneuverability qualities and must be practical and affordable.

I will be grateful if you could please get this information circulated and placed on a suitable notice board.

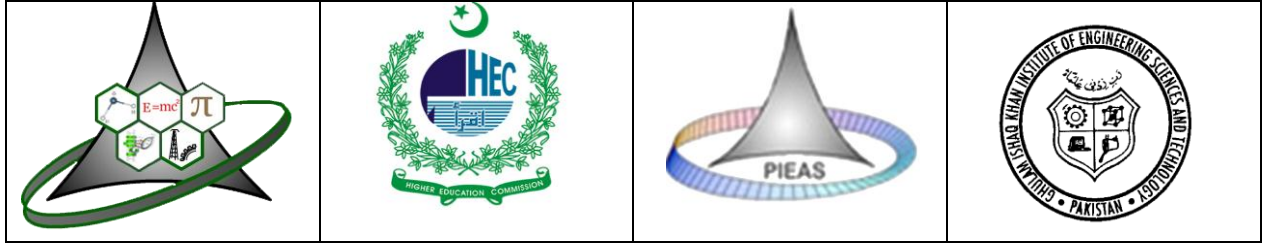
Prize Money:

Winners among students competing in Electric Powered category will be awarded certificates and cash prizes as follows:

- **First Prize** **Rs. 80,000**
- **Second prize** **Rs. 60,000**
- **Third prize** **Rs. 45,000**
- **Other Prizes** **Rs. 45,000**

Requirements:

- There must be a maximum of two (2) teams from any one educational institution. For institutions with multiple campuses in different cities/parts of the country, each campus will be considered as a separate entity.
- Members of the one team are not allowed to be members of a 2nd team. In addition, if two teams are participating from one university/institute/college then both of their designs must not be similar or the same.
- All team members (except for a pre-approved pilot) must be full time undergraduate students of HEC recognized Universities or Institutions of Pakistan.
- Students must design, document, fabricate, and demonstrate the aircraft they determine as best capable of achieving the highest score on the specified mission profile(s). Flight scores will be based on the demonstrated mission performance during the contest.
- Each team must also submit a written Design Report. A maximum of 100 points will be awarded for the team design report. Scores for the written reports will be announced at the beginning of the fly-off.



- Each aircraft will have a computed Rated Aircraft Cost, reflecting the complexity/technology of the design.
- The overall team score is a combination of the Design Report, Rated Aircraft Cost and Flight scores. The team with the highest overall score will be declared the winner.

Competition Site:

The competition will be held at Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, Topi, Swabi. Khyber Pakhtunkhwa.

Schedule:

Deadline for receiving nomination/ registration forms 16 January, 2017
Notification of Screened Participants 31 January, 2017
Competition at GIK, Topi 21-23 April, 2017

Registration:

A complete registration form with registration fee of **Rs. 1000/-** per team in the form of Bank Draft payable to **GIK Institute** must reach **Coordinator Design, Build & Fly Competition latest by 16th January 2017**. The DBFC registration form can be collected from the office of the respective faculty member of your university or institute. Be sure to include the Phone and FAX number and Email address of your team advisor and at least one students contact details so we may reach you in case of any last minute problems or changes. All teams are required to provide two point-of-contacts, Email addresses with their contest application, one of which must be of the team's advisor. It is the team's responsibility to make sure the e-mail contact addresses they supply remain active during the entire period from entry to the close of the competition, as the e-mail will be the primary mean of correspondence of information and updates.

For any queries please contact Coordinator DBFC. Post your complete registration forms to the Coordinator DBFC-12. You may visit website i.e. <http://www.giki.edu.pk>

Sincerely yours,

Dr. Khalid Rehman

Coordinator Design, Build & Fly Competition

Faculty of Mechanical Engineering, GIK Institute, Topi-23460, Khyber Pakhtunkhwa

Ph: 0938-281026, Ext: 2315, 2351 Fax: 0938-281000

Email: khalid.rehman@giki.edu.pk

Please Note:

- **The names of the team/participants will not be changed once the form is submitted, and will be used in all reports and correspondence during the competition year.**
- **The rules of the competition will be uploaded on website as mentioned.**

Encl: Registration forms