

F.No. GIKI/FME/DBFC-16/2022

Date: October 20, 2022

Subject: **National Design, Build and Fly Competition (DBFC-16) 2022.**

I am pleased to inform you that upon the successful execution of DBFC-15 in 2022, GIKI Institute of Engineering Sciences & Technology (GIKI) is now hosting the **16<sup>th</sup> National Design, Build and Fly Competition (DBFC-16)** scheduled to be held from **November 25-27, 2022.**

DBFC is a nationwide competition jointly sponsored by HEC & PIEAS and organized by the GIKI Institute in collaboration with STEM Careers Programme.

AIAA GIKI Chapter and GIKI Institute through the STEM Careers Programme of HEC invite undergraduate students to participate in the **16<sup>th</sup> 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.

Students 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.

The competition theme and mission have been uploaded on the DBFC/AIAA GIKI Chapter facebook page.

I will be grateful if you could disseminate the information among the undergraduate students of your esteemed institution and arrange to display the enclosed poster on the main notice board of your department/Institute.

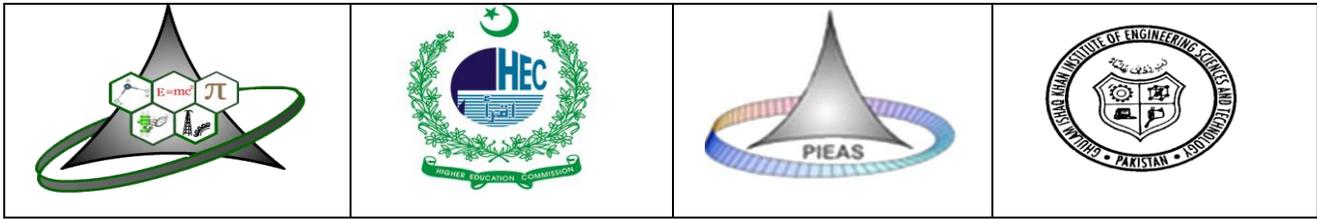
**Prize Money:**

Winners will be awarded certificates and cash prizes as under:

- **First Prize**                      **PKR. 80,000**
- **Second prize**                    **PKR. 60,000**
- **Third prize**                        **PKR. 45,000**

**Requirements:**

- A maximum of two (2) teams from one educational institution can register. For institutions with multiple campuses in different cities/parts of the country, each campus will be considered as a separate entity.
- Member of the one team is not allowed to be member of a 2<sup>nd</sup> 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 document design, fabrication, 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 the combination of the Design Report, Rated Aircraft Cost and Flight scores. The team with the highest overall score will be declared as winner.

**Competition Site:**

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

**Schedule:**

<b><i>Deadline for receiving nomination/ registration forms</i></b>	<b><i>October 28, 2022</i></b>
<b><i>Notification of screened participants/teams</i></b>	<b><i>November 04, 2022</i></b>
<b><i>Deadline for design/technical reports submission</i></b>	<b><i>November 14, 2022</i></b>
<b><i>Competition at GIK Institute Topi</i></b>	<b><i>25-27 November, 2022</i></b>

**Registration:**

A complete registration should include “No Objection Certificate (NOC)’ duly signed by the HoD, copies of CNIC /Identity card of the participating team members with registration fee of **Rs. 3000/-** per team in the form of Bank Draft payable to **GIK Institute** must reach Coordinator of the Design, Build & Fly Competition. 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, Fax number and Email address of your team advisor and contact details of at least one student/team leader so we can reach you in case of any last minute change. It is the responsibility of the teams to make sure that their e-mail contacts they provided remain active during the entire period from entry/start to the close/end of the competition, as the E-mail will be the primary source of communicating information and updates.

For any query please contact Coordinator DBFC or visit our website.

Sincerely yours,

**Dr. Abid Imran**, Assistant Professor  
Coordinator

Design, Build & Fly Competiton

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**Important Note:**

- **Names of the team members will not be changed once the form is submitted/received, and will be used in all reports and correspondence during the competition.**
- **The rules of the competition will be uploaded on internet as mentioned.**

**Encls:** Registration Form, Design/Missions’ Constraints and Poster