SUBJECT: DESIGN, BUILD AND FLY COMPETITION (DBFC-6)

Dear Sir/Madam,

We are pleased to inform you that GIKI is holding the 6th National Design, Build and Fly Competition (DBFC-6) in 2011; after the success of earlier five Design, Build and Fly Competitions, held in GIKI in 2006-2010. DBFC is a nationwide competition, organized by the GIK Institute in collaboration with STEM Careers Programme, a joint Venture of HEC & PIEAS.

AIAA GIKI Chapter and GIK Institute through the STEM Careers Program and HEC invite undergraduate students to participate in the 6th 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 analytic studies.

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

We will be grateful if you please get this information circulated and placed on the suitable notice board attached herewith the letter for information of students to register.

Prize Money:
Students participating in both categories i.e. Electric Powered and Engine Powered will compete separately. Winners in each category will be awarded certificates and cash prizes.

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<tr>
<th>Prize</th>
<th>Amount</th>
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<tr>
<td>First Prize</td>
<td>Rs. 40,000</td>
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<tr>
<td>Second Prize</td>
<td>Rs. 30,000</td>
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<tr>
<td>Third Prize</td>
<td>Rs. 25,000</td>
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<tr>
<td>Other Prize</td>
<td>Rs. 5,000</td>
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Requirements:
- 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 obtained 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.

**Schedule:**

<table>
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<tr>
<th>Event</th>
<th>Date</th>
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<tr>
<td>Deadline for receiving nomination/ registration forms</td>
<td>20th Nov, 2010</td>
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<tr>
<td>Notification of Screened Participants</td>
<td>6th Dec, 2010</td>
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<tr>
<td>Competition at GIK, Topi</td>
<td>9-10th April, 2011</td>
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**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 15th November 2010. 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 for your team advisor and at least one student contact 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 e-mail will be the primary means to provide information and updates.

For any queries please contact Coordinator DBFC.

Post your complete registration forms to:

**DR. MUHAMMAD ABID**
Coordinator Design, Build & Fly Competiton
Faculty of Mechanical Engineering
GIK Institute, Topi-23460, KPK
Ph: 0938-271858, Ext: 2293, Fax: 0938-271889, Cell: 0300-5394185
Email: abid@giki.edu.pk, http://www.giki.pk/dbfc6.html

**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 contest will be uploaded on website mentioned and will be sent to the teams finally selected for competition after the screening process.

Encl: 1. Competition Brochure
2. Registration Form