5th INTER HIGH SCHOOL UNMANNED AERIAL VEHICLE COMPETITION GUIDANCE FOR PROJECT PRESENTATION REPORT

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GENERAL INSTRUCTIONS

- *This document is a guidance which contains explanations about how to fill the PROJECT PRESENTATION REPORT. The report file that the teams will fill and send is the file named as "PROJECT PRESENTATION REPORT TEMPLATE".*
- *Any writings including the table data and the equations must be in "Arial" text font with the size of 11 points.*
- *The pages must be in "A4" dimensions with the "Portrait" orientation.*
- *The report cannot have more than 15 pages, including the cover page and the appendices. (TEKNOFEST cover on the first and last pages does not count as report page),*
- *The file must be converted into the PDF format and then uploaded.*
- *The information must be brief and essential. The information will not get grade if it is not comprehensible and clear.*
- *It is recommended to explain the innovations on UAV in your own words instead of literature knowledge and general information.*

Example 1: *If you will make an UAV to extinguish a fire, the fire statistics, the importance of extinguishing, life and good losses etc. are unnecessary information. Providing such general information overshades the originality of your work.*

Example 2: *If you are to drop a first aid kit from the UAV, it is important to narrate how you will achieve this task. However, the sentences about the importance of first aid or the usage area of dropping first aid kids are not requested from you. You should only focus on writing down information about your mission, your team and your vehicle.*

TEAM NAME: *The section where the name of your team is to be written.*

VEHICLE TYPE: *One of the following options will be written: FIXED-WING / ROTARY-WING / FLAPPING-WING / VTOL / OTHER.*

METHOD OF VEHICLE DEVELOPMENT: *If you develop a new vehicle, you should write "NEW VEHICLE". If you will compete by revising an existing vehicle, please write "EXISTING VEHICLE".*

SCHOOL NAME: *The section where the name of your high school is to be written.*

COUNTRY: *The section where the country in which your high school is located is to be written.*

TEAM RESPONSIBLE: *The section where the name of the person who is a teacher of the high school and equivalent school students from all over the world and takes responsibility of the team is to be written.*

1. **PROJECT TITLE:** *Remark a title which includes the keywords about the mission you will execute and the corresponding strategy.*

2. **TEAM INFORMATION:** *Name/Surname of your team members, their specialties, their duties in the project and the previous experience/successes (if any) are to be given in this section. A referee/reviewer will measure the abilities of the team according to the information here.*

3. **MISSION DETAILS:**

   Description of Flight Mission: *Briefly describe the flight mission you will perform in the field.*

   Originality of Flight Mission: *Explain what is unique about your flight mission compared to its peers.*

   Scope of Flight Mission: *Express clearly and comprehensibly how you will perform your flight mission in the field. The information you give here should be directly related to your flight mission.*

4. **INFORMATION ON UAV:** *This section should contain information about the UAV that you will design or renew, which is;*

   Design: *Give information about the type and configuration (fixed wing, rotary wing, VTOL), size, take-off weight, take-off-landing type (catapult, hand-thrown, on-body landing, landing gear, parachute, etc.) and thrust system of the UAV. Visual and/or technical drawings of side systems such as UAV and catapult should be added in this section.*

   Hardware/Equipment: *Explain the hardware (avionics system, propulsion system, etc.) of your UAV. Equipment added specifically for your mission should be explained apart from the literature information. The system architecture to be used should be added visually. Systems such as communication and power are expected to be specified in the architecture to be installed.*

   Software: *Explain the software you will use on your UAV. The software you will use or benefit from during your flight mission should be explained apart from the literature information.*

   Originality: *Provide information about hardware, software, designs and productions developed with domestic resources for use in the UAV.*

   Innovation: *Mention if you are going to develop new hardware or software that is new, not made by anyone else, or different from someone else's (different engine type, energy source, software, controller, design and auxiliary equipment, etc.).*

5. **BUDGET:** *In this section teams should give details on the material/service expenses to be made for the UAV and transportation expenses (round-trip transportation between Türkiye and your country) to be covered with the project support requested from TÜBİTAK.*

   Budget Table:

   The name of every material/service to be purchased with the project support, the price in TRY and the reasons for purchasing (the purpose for which they will be used in the UAV) and

transportation expenses (not exceeding 2,000 TRY per member (max. 10 members)) should be added in this table.

- **GRADING**: *Project Presentation Report is evaluated based on the following criteria and scores. Therefore, the following points should be clearly stated when filling out the Project Presentation Report.*
    - Flight Mission and Scope (50 points),
    - Innovation (15 points),
    - Originality (15 points),
    - Design (15 points),
    - Team Awareness (5 points).

7th YEAR

#MİLLİ TEKNOLOJİ HAMLESİ