ROBOSOCCER

CATEGORY

Selection Stage Rules and Technical Assignment (Presentation Document / Engineering Notebook)

1. Introduction

The preliminary evaluation report for the RoboSoccer category selection stage should be prepared based on the technical assignments and presentation format outlined below. In this stage, teams must present their robots according to their technical specifications and individual design levels.

2. Team Information

2.1. Team name, mentor, and member details.
2.2. Roles and responsibilities of each team member within the team.
2.3. The team's previous experiences, achievements, and future plans.

2.4. Team names participating in the International STEAM Azerbaijan Festival must **not** reflect political, religious, military, or conflict-related themes.

3. Project Information

3.1. Description of the robot's technical specifications: The robot's distinctive and innovative features (mobility, control type, energy efficiency, structural design, etc.).
3.2. Electronics and control scheme of the robot (Fritzing, Tinkercad, SolidWorks, or other software may be used).
3.3. The electronic components used:

- Arduino UNO or Nano

- Motor driver (e.g., L298N, etc.)

- Bluetooth / RF module (e.g., Flysky or similar)

- 7.4V–11.1V Li-Po battery
   3.4. Photos of the robot from four angles (front, back, top, side). (If the robot is designed entirely by the team, include images and photos of 3D/CNC parts.)

4. Video Clip Requirements

4.1. Teams must prepare a video clip (maximum 180 seconds) showcasing the development and technical capabilities of their robot. The video must include:

4.2. The stages of the robot's creation (maximum 60 sec.)

4.3. Explanations by team members regarding technical details (maximum 90 sec.)

4.4. The robot's movements in the field (forward, backward, turning, etc.) (maximum 15 sec.)

4.5. Images of the 3D/CNC parts (if available) (maximum 15 sec.)

4.6. The video clip must be at least 720p quality and uploaded to YouTube.

4.7. The video description must include the phrase *"International STEAM Azerbaijan Festival 2025"*.

5. Evaluation Criteria

5.1. Teamwork (Based on the Video Clip) – 1–10 points

5.2. Video Clip – 1–15 points

5.3. Presentation Document / Engineering Notebook – 1–20 points

5.4. Robot Type (Ready-Made Kit / Modified Kit / Fully Custom-Built) – 5 / 15 / 25 points

5.5. Technical Design of the Robot – 1–20 points

5.6. Logic Behind the Code Functionality – 1–10 points

Maximum Total Points: 100

6. Additional Notes

6.1. Presentations can only be submitted once.

6.2. Any changes must be communicated with the competition coordinator in advance.

6.3. Presentations that do not meet the above requirements will not be accepted.

6.4. Teams without individual design and engineering proofs will not receive points for those sections.