TECHNICAL GUIDELINES FOR EQUIPMENT BATTLE – ONLINE FORMAT

International Electromedical Innovation Competition (IEIC)
(Online via Zoom)

1. Objective

To provide technical guidelines for conducting the Equipment Battle session professionally, objectively, and transparently even though it is held online.

2. Implementation Format

- Media: Zoom Meeting (link provided by the committee)
- Location: Participant mini studio (prepared by the participant team)
- Total duration per category: 60 minutes
- Number of teams per category:
  3 teams Competition categories:
  1. Life Support
  2. IT Healthcare
  3. Biomedical Signals
- Number of judges: 3–6 persons
- Moderator: Appointed by the committee

3. Team Composition in the Studio

- Maximum of 3 main presenters (core team members)
- A supervising lecturer/promoter may accompany the team but may not interact directly during the presentation (only seated beside the team)
- The developed equipment must be physically available in the studio
- A technician/operator may accompany the team, limited to 1 person, but may not interact directly during the presentation except in the event of a technical problem.

4. Camera & Audio Setup

Camera	Focus/Position	Purpose
Camera 1	Focus on the equipment (close-up)	Shows the equipment demonstration in detail
Camera 2	Focus on presenters 1, 2, 3 (main)	Presentation of the innovation concept and idea, showing team coordination and the question-and-answer session.
Camera 3	Wide shot/monitoring area	Prevents cheating or the use of unauthorized aids
Camera 4	Wide shot/monitoring area	Prevents cheating or the use of hidden aids

- All cameras must remain active and stable throughout the session.
- The committee and judges will monitor the feeds from all four cameras simultaneously through Zoom.
- Automatic camera switching or video editing effects are prohibited.

5. Technical Flow of the Zoom Session

- The moderator opens the session and introduces the three teams and the judges.
- The moderator determines the presentation order (A → B → C).
- Each team is given a total of 20 minutes according to the scheme above.
- The moderator will give a time warning (1 minute remaining) in each session.
- After all three teams have presented, the judges may provide their final assessment directly.
- The committee closes the battle session and saves the entire recording.

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7. Equipment Battle Implementation Scheme

The battle is conducted alternately for 3 teams in 1 category (for example, Team A, Team B, and Team C). One battle round lasts approximately 20 minutes per team, with the following scheme:

Stage	Duration (minutes)	Description
Team Presentation (e.g., Team A)	(5 minutes)	Presentation of the innovation, concept, and equipment advantages
Equipment Demo	(5 minutes)	Live demonstration of the equipment's function and performance
Questions from Judges	(2 minutes)	Each judge asks a brief question (1–2 questions)
Team A's Answers to Judges	(3 minutes)	The team answers and provides technical clarification
Question from Team B or Team C	(1 minute)	One of the challenging teams asks a question
Team A's Answer	(2 minutes)	The team answers the question from another participant

- After Team A finishes, Team B and then Team C follow the same flow.
- The moderator will strictly manage the time and order of questions. Total time is 20 minutes per team, 60 minutes per category.

8. Studio Technical Requirements

- An enclosed room free from noise disturbances.
- Adequate lighting so that the equipment and presenters are clearly visible.
- Audio using an external microphone/lavalier microphone (recommended).
- A stable internet connection with a minimum upload speed of 50 Mbps.
- The committee will conduct a technical test (technical meeting) 1 day before the competition.

9. Prohibitions and Sanctions

- Recorded video may not be used as a substitute for a live demonstration.
- No intervention from outside parties is allowed during the session.
- Manipulation of camera views or real-time video editing will result in disqualification.
- If a technical problem occurs, the committee may grant a maximum additional time of 5 minutes.

10. Documentation and Archiving

- Each session will be recorded by the committee.
- The recording will be used for re-evaluation if a dispute regarding the results occurs.
- Participant teams may request a copy of the recording for personal documentation after the competition ends.

Example Mini Studio Setup

