



ROBOT CHALLENGE

Egypt 2022

Competition



Robot Challenge Egypt 2022

"Freestyle Rules"

This Category is

In Robotchallenge freestyle category teams develop a robot, control circuit or embedded system that helps to solve real-world problems. Each team develops an innovative and functioning robotic solution. They present their project in the competition day.

Allowed Ages

- -Junior (9-13 years old).
- -Senior (14-18 years old).
- -Adult (19-24 years old).

Area of development

- -Research and development: Identify a specific problem within the season research and come up with creative solution.
- -Prototyping: Turning your idea into functional robot solution
- -Technical engineering skills: Using sensors and motors to make robot design solve problem
- -Innovation
- -Presentation skills



Specifications

- -No restrictions of using any type of robot.
- -Teams can use any software programming language to code the robotic solution.
- -Before the competition day each team must send an abstract of the project.
- -Each team must bring scientific poster for the project. The maximum size of the poster is (122 cm width x 274 cm height).

Scoring

- -The project will be judged by multiple judges. One judge per the round.
- -Teams will be judged on: The idea and its applicability in real life.
- -Designing of solution and its modifications.
- -Innovation technology and the code.
- -The presentation, poster and the interview with judges.



Rubric of Freestyle Rc

	Was the problem or need specified and mentioned clearly?	4
	Idea, Quality, and the creativity	4
THE IDEA	Social impact and need	4
	Research and report	4
	Is the idea economically feasible as a product?	<u>4</u>
	Is the solution a significant improvement over the previous alternative?	

Total 20

	Does the team know the constraints	5
	for their solution?	_
Innovation	Meaningful use of engineering	5
	concepts	_
Technology		
	Robotic Solution	<u>5</u>
	Code Efficiency & Software	5
	Automation	_

Total 20



	Were the criteria and the constraints for their solution mentioned clearly?	<u>5</u>
Design developments	Was the link between the solution design and the idea clearly mentioned?	<u>5</u>
	Does the team clarify the criteria needed for their robot design?	<u>5</u>
	Did the design pass through many modifications?	<u>5</u>

Total 20

PRESENTATION & TEAM SPIRIT		How was the team's presentation? Does the poster include the essential elements of the poster?		<u>10</u> <u>4</u>
		Team Spirit		<u>6</u>
			Total	20
	TOTAL		<u>100</u>	
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For further questions:

Technical Support: 01022758877

Good Luck

