

REGULATIONS
«EDUCATIONAL ROBOTICS - ENGINO® MINI & LEGO WEDO»

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1. Introduction

The challenge of educational robotics provides an opportunity to young students of primary education to cooperate, to exploit their fantasy and creativity to develop constructions in which robots play an important role.

2. The Theme

1. In view of the public debates on the implementation of the General Health Plan in Cyprus, the Scientific Committee of the organization considers the issue "Health" to be very timely.
2. The topic of this competition is "**The Robots at the Health Service**".
3. Please note that at the time of this announcement the theme the related competition at ROBOTEX INTERNATIONAL is not known. Most likely the theme at the international event will be different. So, the winning team of ROBOTEX CYPRUS will have to develop another construction/project for participating in ROBOTEX INTERNATIONAL.

3. Objective

1. The objective is to present a construction directly related to the subject of the competition (see point 2.1 above).
2. A robot that is programmed to participate in the whole environment/scene must have a significant role in the construction.
3. The environment of construction can be considered as entities directly related to the provision of health services, such as: the hospital, the clinic, the doctor's office, the chemist, the pharmacy, the nursing home and even our home! In addition health professionals such as doctors, nurses, physiotherapists etc.

4. Categories

1. The competition is addressed to groups of elementary school pupils.
2. The categories of the competition are "1st – 3rd Grade Primary " and "4th – 6th Grade Primary".

5. The Team - Eligibility for Participation

1. The competition is aimed at groups rather than individuals.
2. Each group can consist of two (2) – six (6) students.
 - In ROBOTEX INTERNATIONAL in Estonia the team may consist of three (3) – five (5) players. So, the winning team at ROBOTEX CYPRUS that will be participating in ROBOTEX INTERNATIONAL may be allowed to register only three (3) – five (5) players. This remains to the discretion of the ROBOTEX INTERNATIONAL Organizers.
3. One student only who belongs in the "1st - 3rd Grade Primary" category can participate in a team of "4th – 6th Grade Primary". The opposite is not applicable.
4. Teams must be accompanied by an adult, preferably their coach or teacher.
5. The team defines one of its members as a leader who will be responsible for the communication with the Organizing Committee and the judges, for the technical control process and for operating the robot during the competition.

6. Robotics Platforms

1. The competition involves the ENGINO MINI and LEGO WEDO platforms.
2. Any references to "robots", from this point to the end of the document, include and refer to both types of robots, ENGINO MINI and LEGO WEDO.

7. The Robot

1. The robot must be programmable.
2. The robot should be constructed with original materials and parts on the corresponding platform.
3. The robot must fit on the track.
4. The robot must perform kinetic actions.

8. The Construction

1. The construction should be implemented with original and licenced materials of the respective platform.
2. The overall height of the structure (including the robot) may be up to 1.5 meters high.
3. If the construction is surrounded by walls, the walls must necessarily be made of original materials of the corresponding platform.
4. It is forbidden to use non-original materials for the construction, such as wood, paper, plastic, aluminium, polystyrene, plastisin, clothes etc.

9. The Field

1. The field is defined as “the floor of the structure, the base on which the construction and the robot are placed”.
2. The field is a do-it-yourself (DIY) mat area with dimensions up to 1 meter wide x 1 meter length.
3. The field must be flat.
4. The field does not have to be built with original and licenced materials of the platform. For this, materials such as wood, plastic, aluminium, polystyrene can be used.

10. The Competition

1. The subject of the competition is “Robots at the Service of Health”.
2. The aim is to present a construction directly related to the subject of the competition (see paragraph «3. Theme», point 3.3 above).
3. In the construction it is important to have a robot that is programmed and is actively involved in the construction environment.
4. For the category "1st - 3rd Grade Primary ", the robot must perform at least two (2) mobile/kinetic activities in an environment related to the subject of the competition (see paragraph «3. Theme», point 3.3 above).
5. For the category 4th - 6th Primary Class, the robot must perform at least three (3) mobile/kinetic activities in an environment relevant to the subject of the competition (see paragraph «3. Theme», point 3.3 above).
6. The robot should remain on the field throughout the activity presentation.
7. If the robot hangs or gets stuck and does not move, it can be helped by children by lifting it or by moving elements on the track.

11. The Assessment

1. The evaluation is carried out by groups of judges who visit the participating teams at the exhibition area of their constructions.
2. The maximum number of points to be achieved by a team is forty (40).
3. The process and evaluation details are explained below.

11.1 Presentation

1. The team will have available three (3) minutes to present the structure and the activities performed by the robot to the judges.
2. The presentation gives ten (10) points and includes the following criteria:
 - introduction of the members of the group and the role of each member (5 points)
 - explanation of construction and its relation to health (5 points)

11.2 The Robots

1. This part of the evaluation gives ten (10) degrees and includes the following criteria (5 points per criterion):
 - explanation of the code or algorithm used for programming the robot
 - demonstration and explanation of the two (2) or three (3) kinetic functions performed by the robot, depending on the category of the team. (See section «10. Competition», points 10.4 and 10.5 above).

11.3 The Construction - Qualitative Features

1. This part of the evaluation gives ten (10) points and includes the following criteria (two (2) points per criterion):
 - Fast application of the construction in the real world
 - Level of detail of the design
 - Relevance and interconnection of the construction with a specific health environment
 - Originality and Authenticity
 - Overall quality of construction.

11.4 Explanatory Video

1. Each team has the option to illustrate its construction and the idea behind it with a video.
2. The video is optional but its preparation may add value to your participation and earn up to ten (10) extra points
3. The video must document collaboration, team and collective work amongst team members implementing the construction and program the robot.
4. The maximum duration of the video must be up to two (2) minutes.
5. The video must be available on the day of the contest for demonstration before the judges.
6. The video must be started by the leader of the team.

12. Example

1. See a [video](#) for the ^{ENGINEO} MINI platform.
2. See a [video](#) for the LEGO WeDO platform.

13. Responsibility

1. The organizers of CYPRUS ROBOTEX CHALLENGE do not take responsibility for any incidents and/or accidents that may be caused by the participants or their robots or any of their equipment.
2. The organizers of CYPRUS ROBOTEX CHALLENGE do not accept any responsibility for any damage to the robots or the construction or the theft of them, should it occur.

14. Terms and Conditions of Participation

1. Participation in ROBOTEX CYPRUS assumes and requires acceptance of all terms and conditions for participation by competitors, the coaches and the organizations they represent.
2. In case of any difference in the competition rules between the English and the Greek versions, the English version is considered as correct.
3. The robot must be registered before the competition. The registration process includes technical inspection of the robot, marking the robot with a number sticker, and the order in which it will compete which is generated by an algorithm in the information system supporting the ROBOTEX CYPRUS organization.
4. All questions and issues that may arise during the competitions must be reported to the judges.
5. The final decision about objections will be taken by the judges in cooperation with the organizers.
6. Judges' decisions on any objections are considered final and can't be challenged by participants, the coaches or the organizations they represent.
7. In the case of a deliberate alteration or change of marking of the unique number of robots, the coach and his team will be automatically expelled from the event. As a result they will not be able to take part in any other challenge they may have enrolled. The coach and his team will leave the venue immediately. The coach also loses the right to take part in the next ROBOTEX CYPRUS event and is automatically excluded from participating in ROBOTEX INTERNATIONAL in case one of his/her teams has won a ROBOTEX CYPRUS competition. The Organizing Committee reserves the right to publicly announce the coach, the team and its members.
8. It is expected that both the coaches and the members of the teams will exhibit a spirit of noble rivalry and will behave with mutual respect, decency and esteem both to themselves and to the organizers, judges and volunteers. The behaviour of all coaches and team members should promote "fair play". Therefore, the Organizing Committee reserves the right to expel anyone from the venue of the event who violates the above principles of good practice.

15. Technical Control

1. For purposes of clarity of this section, the clauses «**Robotics Platforms**», «**The Robot**», «**The Construction**» and «**The Field**» will be collectively referred to as the "Team's Entry".

2. Technical control includes the inspection of the Team's Entry based on the requirements of the sections «**6. Robotics Platforms**», «**7. The Robot**», «**8. The Construction**» and «**9. The Field**».
3. If any of the items of the Team's Entry above do not comply fully with the requirements, the team will not be accepted to compete and will automatically be disqualified from the event.
4. Technical control of the Team's Entry will take place on the day of the competition at an area and on time specified by the organizers in the event's programme.
5. It is expected that the team will arrive early and be present on time for the technical control as specified on the programme of the event. Failure to do so, the team will not be accepted to participate in the competition.
6. Only the members of the team must be involved in the process of transport of the team's entry at the competition area.
7. Only the members of the team must be involved in the preparation of the team's entry and its placement at the exhibition area.

16. Changes and Cancellation of Rules

1. Any changes and/or cancellations in the rules of the competition are decided by the Cyprus Computer Society in consultation with the Organizing Committee of the CYPRUS ROBOTEX CHALLENGE. You may address comments and suggestions to the Organizers at robotex@ccs.org.cy.

17. Note – Team Participation in ROBOTEX INTERNATIONAL

Please note that the corresponding competition in ROBOTEX INTERNATIONAL IN Estonia is INSPLAY LEGO WEDO (for LEGO WEDO) and INSPLAY ROBO LEAGUE for ENGINO MINI.

The difference between the ROBOTEX CYPRUS competition and the two INSPLAY competitions is the fact that INSPLAY is primarily a construction/project exhibition and does not include a competition element.

Therefore, the ROBOTEX CYPRUS winning teams who will be participating in ROBOTEX INTERNATIONAL must be aware that in ROBOTEX INTERNATIONAL there is no declaration of winners and there are no prizes awarded.

The above were valid during the ROBOTEX INTERNATIONAL 2018 event. In case of changes, teams will be informed accordingly. Interested participants may also visit www.robotex.ee for any updates.