

REPUBLIC OF TURKEY

MINISTRY OF NATIONAL EDUCATION

**The General Directorate of Technical and Vocational
Education**

**13. INTERNATIONAL
MEB ROBOT CONTEST
OPEN CATEGORY RULES**

2019 – SAMSUN

OBJECTIVE

It is organized for robotic projects in International Robot Competitions to provide a platform for high school and university students to realize and present their dreams, scientific ideas, abilities.

SUBJECT

It will be organized in 3 groups which are the fields of health, security and artificial intelligence.

RULES

1. Only students from universities, high schools and secondary schools can participate to this competition.
2. Teams which will participate to competition are determined in frame of general rules. Each team can participate with only one project.
3. Projects should be prepared according to "Project Preparing Guide-2019" in appendix-1
4. Projects that have participated or applied to any other project competition with the same or different names and / or with the same or similar content (subject) before the deadline are not allowed to participate in this competition. Before the deadline, such projects that are determined their participation or application to another competition with the same project will be eliminated from the competition at any stage.
5. Students who participate to "TUBITAK research projects contest for secondary school students" cannot apply with same project to this competition
6. Documents for application;
 - ✓ Application form (appendix 2)
 - ✓ Project Plan
 - ✓ Project summary (max 250 words)
 - ✓ **Declaration of commitment and ethics statement (appendix 3)**
7. All teams must send all project documents and declaration of commitment and ethics statement signed and stamped to email : robotyarismasi@meb.gov.tr **before 8 March 2019** for pre-evaluation.
8. Pre-evaluation result which listed the projects that will be invited to final competition and other conditions will be published on <http://robot.meb.gov.tr> on 29 March 2019
9. Teams which are invited to final competition have to prepare 3D design model of their projects.
10. Project should be maximum 80kg weight and its dimensions should be less than 80x140x100cm.
11. Team members have to present their project presentations in maximum 10min to jury board.
12. After presentation, teams will show their projects to jury board in exhibition hall.
13. Teams have to bring all necessary equipments to show their projects to jury board.
14. Jury board will consist of 5-7 members. **projects in each group will be evaluated by expert of that group.**
15. Projects/Robots will be evaluated by expert jury members of each group according to following criterions (total score 100);
 - ✓ Innovation
 - ✓ Autonomy
 - ✓ Design (Performance, cost, simplicity)
 - ✓ Applicability

- ✓ Actuality
- ✓ Presentation

After evolution process by taking into consideration of above criteria, winners (the first, second and third places) will be determined.

PRE-EVALUATION

1. Projects which are prepared in accordance with project guide will be pre-evaluated by related jury experts through their "project reports". Additional time will be given to projects that have some lacks after this evaluation.
2. It is expected that projects were inspired from original ideas of students. Students can get consultancy but their projects should be formed and finished with their own knowledges and competences. If it is determined that projects were not meet this expectation, competitors and advisor will be disqualified.
3. Projects which were invited to final competition, they will be interviewed by jury members. Computer and projection device necessary for presentation will be provided by the organisation. (All other equipments must be brought by teams)

APPENDIX 1

Contents

- 1. Cover page:** Title of robot project, field, institute/school name, students name, the name of organisation willing to use robot project outputs, advisor name.
- 2. Abstract:** In this section, it should be explained that expected or obtained results, validation methods, modelling simulation, testing, manufacturing prototype etc to realize robot project idea.
- 3. Objective:** You should give answers of questions such as; What is the reason to start such robot project? If your project succeeded, what can be achieved? Definition of organisation which willing to use outputs of your robot project and its activities ? How will this organisation use your outputs of robot project? etc. In this section , you can also give some details such as cost, emission, competitiveness,efficiency , cost-benefit ratio etc. In addition, you can add national or sectoral contribution of your robot project outputs or contributions to another institutions if there is besides the organisation willing to use your robot project outputs.
- 1. Innovative aspects of robot project:** Which of the innovative categories at international, national or company level include innovation in your robot project? What are the differences or advantages of the product, output method or process of your robot project when you compare with other similar or previous projects? what are the chances of obtaining intellectual/industrial property rights such as patent, industrial design, copyright, etc. for intermediate outputs or final outputs of your robot project? What kind of differences does your robot project has in comparison to other previous patents?
- 2. Methods and techniques used at preparation stage:** You should explain your methods, techniques, solutions, equipments to realize your project idea. It is also expected that include activities to validate the outputs of your robot project.
- 3. Work-time planning:** It should consist of time planning, work packages, activities in each of work packages and a main plan produced with Gantt chart or MSProject etc. to carry on your robot project
- 4. Result:** Expected or realized results obtained from robot project should be evaluated and interpreted. If the output of your projects applied to any industrial company/ factory, you can present all results so far in this section.
- 5. Resources:** You should list of your sources in this section.

APPENDIX 2
PROJECT APPLICATION FORM

13th International MEB Robot Contest			
PROJECT CATEGORY			
PROJECT NAME			
PROJECT SUBJECT			
FIELD THAT WILL BENEFIT FROM PROJECT			
PROJECT APPROXIMATE COST			
INSTITUTE NAME			
PROJECT STUDENTS			
NAME SURNAME		NAME SURNAME	
ADVISOR NAME SURNAME			
INSTITUTE			

APPENDIX 3
CALENDAR

Applications	14 January – 29 March 2019
Sending project documents	08 March 2019
Pre-evaluation and corrections	08 March -22 March 2019
Announcement of pre-evaluation results	29 March 2019
Final competitions	17-18-19 April 2019