

* Please be aware that this is provisional version of the rules, there may be some changes.
Specially testing material of size and weight is till on progress, but still there will be new updates



1. Game Description

Participants are required to design, construct, and present their robots according to theme presented by IROC. There are no limitations on material or size, so that participants can express their imagination.

2. Robot rule

2-1. Robot type

There is no restriction on robot type or material, but anything may pose a threat to other people is prohibited.

2-2. Robot size

Robot should be able to be constructed in the given construction area. If size of robot is too big to be constructed inside the given area or to be presented, the participant should take full responsibility.

2-3. Construction condition

Props, background, or controller can be pre-built, but other parts of robot should be built on-site.

2-4. Power source: No restriction

2-5. Operation: Robots should work with an independent electric power supply; it cannot use a combustible device.

2-5-1. Robot should act according to manual provided

2-5-2. Example of failure to act according to a plan you submit first.

2-5-2-1. Walking robot that cannot walk

2-5-2-2. Robot that is related washing which could not perform washing.

2-5-2-3. Climbing robot that cannot climb

3. Playfield Regulation

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3-1. There is no special playfield use but each team is given table size of 1,800cm x 600cm, and they can utilize area around table while not disrupting other teams. Table size can be changed due to situation.

4. Competition

4-1. Suggestion of the Main Theme

It will be announced on homepage at least end of May of that year.

4-1-1. Main Theme in 2017

“Security: Redefine Public Safety and Security”

4-2. A national preliminary round

If you (or your country) have a national preliminary round, the production plan of UCC will be tested on progress during that round and only participants who passed that round can go to the final round. Please refer to the below.

4-2-1. Production plan should be listed on intension of the plan, purpose, function and quality of the robot that could come out video as creative and effective in 1 minute.

4-2-2. Participant should mention the actual cost of production in the plan.

4-2-3. The limit of capacity for production plan has to be less than 200MB. If it doesn't follow 10 point will be deducted

4-2-4. The resolution has to be 1280x720, if it doesn't follow 10 point will be deducted.

4-2-5. Format of the file has to be AVI, WMV (the others is not admitted)

4-2-6. Name of the file, Name of the school, Name of the

4-2-7. Name of the file has to be same as the title.

4-3. Competition will be held in 2days in the stadium and robot is constructed on-site, presented to and questioned by judges. The result will be uploaded on the website.

4-4. First day

4-4-1. Construction time of the robot is total 5 hours. (Except lunch time)

4-4-2. Judges can request or ask question to students during construction time, if participant behave insincerity the points will be deducted.

4-4-3. Participant acting insincerity attitude toward the competition the points will be deducted.

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4-4-4. All teams should finish constructing robot in given time. If time is over and they need specified time, the point will be deducted as below the graph.

<The deducted points that are needed due to exceed time>

Time	5min	10 min	15 min	20 min	25 min	Over 30 min
Point	-1 pt	-2 pt	-3 pt	-4 pt	-5 pt	-6 pt

4-5. Second day

4-5-1. Judges will move randomly during presentation to evaluate skills and function of robot.

4-5-2. Modification and repair of the robot is prohibited during presentation. However, if parts of the robot are damaged or battery runs out, judges or organizer can authorize to repair the robot.

4-5-3. Judges can request or ask question to participants during presentation, if they behave in act of insincerity, there will be point deduction.

4-5-4. Participant acting insincerity behavior toward the competition, the points will be deducted.

4-5-5. All teams can present their robots to general public.

4-6. Paper evaluation

In final stage, additional paper evaluation on-site is placed to evaluate creativity of participants. Paper evaluation will be progress on 1st or 2nd day of the competition. If it is done at first day, participants can have supplement construction time in second day under the Rule of 4-4-1.

5. Evaluation and Rank decision

5-1. Evaluation criteria

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Judges will evaluate according to below criteria, and will sum up the points to decide final rank.

Construction (60 pts)			Presentation (20 pts)	Study (20 pts)
Creativity of robot	Cooperative problem solution	Completeness of appropriate theme	Robot introduction and explanation	On-site creativity evaluation
6/12/18/24/30	4/8/12/16/20	2/4/6/8/10	4/8/12/16/20	4/8/12/16/20

5-2. Draw

If points are draw, rank will be decided from the following.

5-2-1. No.1: Work with no deductive point will have higher rank than below

5-2-2. No.2: Work with more functionality over cost point will have higher rank

5-2-3. No.3: Work with more cooperative problem solution point will have higher rank than below

5-2-4. No.4: A team with younger average age of team members will have higher rank than below

5-2-5. No.5: Work with more creativity point will have higher rank than below

5-2-6. No.6: Work with more presentation point will have higher rank than below

5-2-7. No.7: Work with more completeness point will have higher rank than below