

# Online Robotics Competition (ORC) 2020 Judging Criteria

## Submissions before Live Competition

Deadline  
25 Nov

Source Code to be submitted on 25 Nov.

Presentation (PowerPoint file) to be submitted on 25 Nov.

27 – 28 November 2020

| Mission Evaluation Criteria<br>(Judged Through Live Competition)  |  | Max Points   |         |           |
|---|--|--|---------|-----------|
| 1   | Sanitation using green light indicator for 2 seconds   | 1 Point  |         |           |
| 2   | Transporting arrivals from airport to test center using dedicated route  | 2 Points Each (Max 4 Points)   |         |           |
| 3   | Transporting positive cases using dedicated route  | 2 Points Each (Max 4 Points)   |         |           |
| 4   | Sanitation (any time between dropping positive cases and before picking negative cases) using yellow light indicator for 2 seconds | 2 Points   |         |           |
| 5   | Transporting negative cases using dedicated route  | 2 Points Each (Max 4 Points)   |         |           |
| 6   | Return to airport using dedicated route  | 10 Points  |         |           |
| Max Points For Missions   |  | 25 Points  |         |           |
| Final Score   |  | Missions Score + *Time Evaluation  |         |           |
| *Time Evaluation Criteria   |  | 10 – 10 x (Match Time / Time of Slowest Team)                            |         |           |
| Presentation Evaluation Criteria<br>(Judged Through Live Competition And Source Code Submission)  |  | Poor   | Average | Excellent |
|   |  | (0-1)  | (2-3)   | (4-5)     |
| Fluent and well-organized expression, rich vocabulary, clear pronunciation, accurate use of technical terms to describe the project, including all required information.  |  |  |         |           |
| Present latest technologies used to fight against the spread of covid-19  |  |  |         |           |
| Present A complete problem-solving process for the ORC missions, including problem definition, generation of possible solutions, selection and testing of solutions (code), analysis and evaluation of results. |  |  |         |           |
| Equal participation of all team members (for teams only)  |  |  |         |           |
| Participant(s) answered all the questions by judges   |  |  |         |           |
|   |  | Maximum Score (Team): 25 Points<br>Maximum Score (Individual): 20 Points |         |           |
| Coding Evaluation Criteria<br>(Judged Through Live Competition & Source Code Submission)  |  | Poor   | Average | Excellent |
|   |  | (0 – 1)  | (2-3)   | (4-5)     |
| Optimized code (number of lines, loops, functions, conditions, events...)   |  |  |         |           |
| Code organization and comments insertion  |  |  |         |           |
| Participant(s) answered all the questions by judges during live competition day   |  |  |         |           |
| Bonus: script coding (participant(s) answered all the questions by judges during live competition day)  |  |  |         |           |
|   |  | Maximum Score: 20 Points   |         |           |