

2020 MATE Egypt Regional ROV Competition FAQs

FAQs

Q1: What is ROV?

Remotely Operated underwater Vehicle (ROV) is a tethered mobile robot commonly used to perform dangerous missions accommodating submarine industries such as offshore hydrocarbon extraction and subsea installations construction beside the military and scientific services. And due to the sophisticated design of the ROV, it can maneuver easily in the deep oceans.

ROVs might use thrusters to move from a point to another and develop some sort of a vision depending on the sensory systems to decide the perfect actions, as they may be equipped with LIDAR, SONAR, or Camera.

Q2: What is MATE Egypt Regional ROV Competition?

MATE Egypt ROV competition is an annual regional competition held in the Arab Academy for Science, Technology and Maritime Transport (AASTMT) for the interested undergrads in the remotely operated underwater vehicles (ROV). As the ROVs perform specific underwater missions according to the rules and the competition guidelines. The competition was firstly launched in 2012 by Delta Square International LLC in association with the AASTMT.

This competition is a regional round to qualify the winners for the international competition organized by the Marine Advanced Technology Education (MATE) Center and MATE Inspiration for Innovation to represent Egypt at MATE International ROV Competition.

Q3: Can postgraduate participate at the competition?

Egypt ROV competition is only for undergrads which are categorized into two classes as following:

- Explorer category – University students.
- Ranger category – High and middle schools students.

Postgraduates are only allowed to participate as team mentors.

Q4: Is there chance for juniors to participate in the competition?

Of course, middle and high school students can join the competition in the Rangers class

Q5: Is there a local competition in Egypt?

No, there is only a Regional Competition to qualify to the International.

Q6: How many teams are allowed to participate at the international competition?

For Explorer and Ranger Egypt finals, if number of organizations/entities is:

- Less than 11, so first place team only will participate at the international competition.
- Equal to 11 or more and less than 20, so the top 2 teams only will participate at the international competition.
- Equal to 20 or more, so the top 3 teams only will participate at the international competition.

Q7: What is the minimum and maximum number of members for each team?

Minimum is 3 members and no maximum number.

Q8: What is the expected experience shall I gain by participating at the competition?

From the technical side, a participant may gain practical experience and will learn how to build a ROV from scratch regarding the design process, constructing mechanisms, sealing, buoyancy, electrical and electronic circuits and its implementation, thrusters and controlling the whole ROV system using different means of controllers.

From another side, a participant may increase or strengthen his own personal skills, as he will learn how to work in a team with various characters, time management, planning and scheduling work to deliver the ROV on time, besides technical writing and presentation skills to present the ROV.

Q9: Can I participate as an individual without joining a team?

Only teams can join the competition so participant may participate only with a current team or form his own team with at least 3 members.

Q10: What is the registration fees of the competition?

400\$ for each team in explorer class.

200\$ for each team in rangers class.

Please revise the competition rules and guidelines for more details.

Q11: What should I do to register at the competition?

From 5 January 2020 to 2 March 2020, the representative of the team should register team's essential data like team name, team leader's data and category to the registration form at the Egypt competition website.

Competition fees is to be paid via the competition website during the registration process, after payment confirmation the team must register on MATE international competition system with the whole team data including but not limited to team members contacts, mentors data, accept all waivers,etc.

Q12: What is the competition timeline?

- Registration (05 January 2020 – 02 March 2020)
- Opening ceremony (27 January 2020)
- MATE International registration deadline (02 March 2019)
- Technical report submission (15 March 2020)
- Egypt Finals (02- 04 April 2020)
- International Finals (June 2020)

Q13: Is there any needed previous experience should I have to participate?

The team members must have basic technical background of mechanics, electrical and electronic circuits and basic programming concepts to be able to search, develop, execute and learn to reach the remaining required topics in the ROV construction like sealing, thrusters and others.

Q14: Will the team get any technical support?

Participant teams get orientation session and periodic meetings with organizers also teams are welcomed to contact us any time on the technical support mail of the competition tech@rovegypt.org for any inquiries regarding the rules, playgrounds and product specifications.

In addition, teams may follow the technical support blog and FAQs on the competition website for more information.

Q15: What is the allowed number of teams to be participated in the Regional competition per each organization?

Two teams per university only are permitted, provided that they come from different departments and/or campuses and that there are no common mentors/doctor or students (i.e., faculty can only mentor one team and students can only participate on one team).

Universities with two (or more) teams that do not meet these criteria are encouraged to hold an in-university run-off to determine which team will represent their university at the competition.