

# R·I·T Dubai

جامعة روتشستر للتكنولوجيا - نيويورك، أمريكا

**Rochester Institute of Technology, NY, USA**

## **RIT – Dubai Engineering Competition**

**Competition Day:  
April 20<sup>th</sup>, 2016**

# **Programming Competition**

## ***RULES & INSTRUCTIONS***

- You can choose any programming language you want (i.e. Java, C++, Python ... etc) to solve the competition problems.
- At the University, we have:
  - Python (2.7), Eclipse Mars.1 Release (4.5.1), JGrasp (version 2.0.1\_09) and BlueJ (version 3.1.5).
- You are allowed to use your own laptops and you are welcome to use our computers in our lab.
- The competition will go for about 1 hour and 15 minutes.
- There will be a total of 6 problems that are designed on three levels (easy, med and hard) and each problem have a number of points assigned to it (50, 100 and 150 respectively).
- When a team finishes any of the questions, the team members need to call the competition judge to test the code and give the points (if everything is working properly).
- Calling the judge to test a nonworking code or a wrong code will result in losing 10 points.
- To determine the winner:
  - The team with the highest number of points will win.
  - In case of a draw, the team that finished first will be the winner.
  - In the far-fetched case of two (or more) teams finishing at the exact time, we will have a bonus question (i.e. Tie Breaker) to select the winner.

If you have any questions, please let me know (email: [omacad@rit.edu](mailto:omacad@rit.edu))

### ***A Word of advice:***

Before making an attempt on any problem, make sure you have considered the input and time constraints as specified in the problem statement and your output is as per the output format. When you are sure, just raise your hand and the judge will be there to check your solution.

Wish You All the Best!!

## **Electrical Engineering Competition**

### *DESCRIPTION*

This is an onsite competition, where students are asked to build an electrical system and test it in a 2 hour time. All components will be provided and a presentation will be given at the beginning of the competition to explain the details of the project.

If you have any questions, please let me know (email: [ltkcad@rit.edu](mailto:ltkcad@rit.edu))

## **Mechanical Engineering Competition**

### *DESCRIPTION*

The Mechanical Engineering Competition provides a platform for high school students to present their solutions to a wide range of design problems. Participating teams of two or three students are provided with the raw materials at the day of the event. Each team must use the provided materials to design and build a working mechanical mechanism or system. Teams of students must agree on a design for the required mechanism. Students will draw a sketch of their agreed upon design prior to construction. Resulting mechanisms are then tested and checked for the range of motion and satisfaction of the given criteria. The evaluation criteria will be provided at the time of competition.

If you have any questions, please let me know (email: [sxpcad@rit.edu](mailto:sxpcad@rit.edu))