Details of Dexter's Lab.

ETC Event 2

ETC Main Coordinators

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Description

Welcome to Dexter's Laboratory!!

Here students get a chance to showcase their Analytical, Simulation and Circuit designing skills amassed over/during the years of their engineering course. The competition is open for all BE/BTECH students. Each team will go through a qualifying round and the top teams will move on to the final round where the Winner and First Runners up will be decided.

So all you Circuit designers come on board and register for Dexter's Laboratory today!!!

Rules and Guide lines:

1. Only students with valid ID card will be allowed to participate.
2. Each student can be part of only **ONE** team.
3. A team may consist of minimum 2 to maximum 3 people.
4. Simulation software and circuit components will be provided.
5. Participants are required to carry their own stationary (pen and calculator)
6. Internet access and referring text books is not allowed.
7. Necessary data sheets will be provided if needed.
8. Any member of a team found indulging in unacceptable behaviour will attract disqualification for the entire team.
9. Decision of judges/coordinators will be final.
10. Judges/coordinators have the right to change rules and guide lines without prior notification.
11. Failure to comply with the above mentioned rules will result in disqualification of the team.

TIME AND VENUE WILL BE NOTIFIED LATER.

Details of Rounds

There will be **TWO** rounds.

Round 1: Mind Boggler

Day1 – 30th September 2014:

"Mind Boggler" is a MCQ test.

 The rules are:

1. A total of 50 MCQs of 2 marks each.
2. Duration of the round will be 1 hour.
3. Calculators are allowed.
4. No text books allowed.
5. The top 10 teams will qualify for round 2.
6. In-case due to a tie the number of teams exceed 10, all the deserving teams will qualify for round 2.

Day 2 – 1st October 2014:

Round 2: "Elektronika"

Elektronika will test your circuit building, analysis and simulation abilities.

The rules are:

> The round consist of 3 task.
> 1) Circuit Building/Debugging
> 2) Simulation of the circuit using TINA software
> 3) Theoretical Analysis

1. A computer access with TINA simulation software will be provided. Help will be provided by coordinators if needed while using the software.
2. All components needed will be provided. Teams may carry their own breadboards.
3. Only one circuit per team is allowed to be submitted.
4. Internet access is not allowed.
5. Teams will be judged on the circuit analysis, circuit simulation and circuit built on the breadboard, all three of which must be submitted.
6. Duration is 3 hours.
7. Top 2 teams will be awarded as winners and runners up of Dexter's Lab respectively.
8. In-case more than 2 teams complete the round 2 then the priority given while judging will be:
   a)   Time taken to complete the round i.e. lesser the time more the points.
   b)   Correctness of the actual circuit and the simulation.
   c)   Analysis of the circuit
9. If no team completes round 2 then the teams which complete maximum of the task assigned to them will be given more points.

Resources

1. TINA-TI
   http://www.ti.com/tool/tina-ti