Rules & Regulations

DEPARTMENT: Electrical/EC/IC

NAME OF EVENT: TechPulse

NO.OF MAX. PARTICIPANTS: 100

EVENT DESCRIPTION:

TechPulse is a technical event whose mission is to spread the idea of openness and creativity, which combined with technical knowledge, help tackle the challenges of modern times. It includes various phase like quiz phase and design, programming & simulations phase for solving circuits as well as practical phase related to electrical, Electronics and Instrumentation Engineering.

TEAM SPECIFICATION:

Maximum 50 teams, Maximum 02 participants in a team

REQUIREMENTS:

Students have to bring calculator. Students must have knowledge of TINKERCAD Software. Components will be provided by event coordinator of the host institute.

GENERALRULES:

1. Students must have their current college identity card with them, at the time of reporting.
2. If any team practices unfair means, they will be eliminated immediately
3. Teams for the competition can be made up of students from various institutions.
4. If any participant/group of participants who are not available at the event commencement time, they will be disqualified from the event.
5. All the information pertaining to the task of the event will be provided at the beginning of the event.

6. In case of any discrepancy, decisions of the Jury/ Committee members shall be treated as final and binding to all.
7. Host institute reserves the rights related to modification and updating the rules for successful completion of the event.

LEVEL DESCRIPTION:

Round1: MCQ Test (Day 1, 50 min, 50 Teams)

- It is preliminary test based on basic subjects of Basic Electrical Engineering, Basic Electronics, Control System, Analog and Digital Circuits.
- The test is to be attempted individually by each participant of the team, the average score of the team will be considered for eligibility in round 2.
- No of Questions: 50 (MCQ type) Duration: 50 Mins

Round2: Programming and Simulation (Day 1, 1 Hours, 20 Teams)

- This round will be of the programming and simulation type in which Students have to use **TINKERCAD** Software for programming and simulation
- Student will get 2 Problem Statements that they have to solve on **TINKERCAD** by simulating a circuit using microprocessor or microcontroller.(Preferably Arduino based)

Round3: Application of Knowledge (Day 2, 2 Hours, 10 Teams)

- In this round the teams have to use their knowledge and have to solve the password puzzle with the help of given theoretical as well as practical questions.
- Teams have to solve two network analysis problems. One problem will be solved theoretically to get 2 digit code answer and second one will have to solve by performing practical to get another two digit code answer.
- Based on theoretically and practically performance, they will get 4 digit code password.

JUDGING CRITERIA:

Round 1:
- Top 20 teams proceeding to the round 2.

Round2:

- Total time duration is 1 hour and teams solving faster will be consider for next round.

- In round 2, evaluation will be based on time efficiency and the accuracy of the desired output. Top 10 teams proceeding to the round 3.

Round3:

- Top 3 Teams who will solve this password within shortest time will be decided by judges.

JUDGES:

Any one Academic Expert with minimum 10 years of experience in relevant discipline
AND / OR
Any one faculty from any other GTU affiliated college in the same zone
AND /OR
Any one faculty from the Host Institute

EVENT COORDINATORS:

You can contact the following coordinators if you have any query regarding the event.

Sr. No	Name	Faculty/ Student	Contact No	Email ID.
1	Prof. Rupal Patel	Faculty	9725671214	rupzpatel11@gmail.com
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