



Narsimha Reddy Engineering College
Maisammaguda, Dhulapally, RR Dist, Hyderabad
Department of Electrical and Electronics Engineering

Name of the Activity: Technical

Subject Name: Network Theory

Faculty Name: Shaik Hussain Saheeb

Topic: Magnetic Circuits and Network Topology

Class / Year / Semester: II EEE / 2017-18 / I Sem

Brief Write-up

Dumb Charades is a word guessing game and can add lots of excitement and fun. This activity involves students enthusiastically and had a wonderful time. This game also acts as an icebreaker. Dumb Charades involves explaining the 'phrases' or the name of 'a technical word through acting. A person is not allowed to talk and is required to act out the phrase/name by using different gestures, facial expressions, and body language.

Network Theory

Activity: Technical Dumb Charades **Topic: Magnetic Circuits and Network Topology**
No. of Teams: 3

Preparation / Prerequisites:

Students have to know the concepts of Magnetic circuits along with their principle of operation. As the other topic, Network Topology deals with many terms, to create awareness in key words, this activity has been created.

Rules Executed

- Choose a small piece of paper provided by the class representatives.
- Decide the time which will be allocated to teams to enact & find out the assigned technical term. Generally 60 seconds is good enough.
- The identified member from a Team has to enact the technical name via her body language without any lip movement to the remaining members of his team.
- Others in his team have to guess the name of the technical word by following the gestures.
- It is advisable to have an empire ensures that all the rules of the game are being followed and can keep a track of time and score. This role was taken by the class representatives (CRs).
- The **scoring** can be done by the way:
 - o You can award 10 points to the team for each successful guess of theirs within the timeframe (generally, 1 min.) In case a team fails to guess, do not award any points or deduct 5 or 10 points from their score. The team with maximum positive points in the end, Wins!

Network Theory

Activity: Technical Dumb Charades Topic: DC and AC Transients

Teams' size: 2 or 3 students

Preparation / Prerequisites:

Students have to know the concepts of DC and AC Transients. They should know the mathematical concepts in the topic and also should be able to analyze it in both time and Laplace domain. The students should have the basic concepts of mathematics such as Integration, Differentiation and Partial Fractions.

Rules Executed

- Topics or problems are allotted to students' team on DC and AC Transients.
- Time has been allotted to them of around 3 minutes to think by themselves about the assigned problem.
- After that the students have to pair with their team and discuss about the problem or topic for about another 3 minutes.
- Within this time, the team has to come to conclusion about topic or problem.
- Now randomly, teams are called on to the dais to share their views about the topic or the methodology employed to solve the problem.

Network Theory

Activity: Technical Dumb Charades Topic: **Three Phase Circuits**

No. of Teams: Individually to all the students

Preparation / Prerequisites:

Students have to know the concepts of Three Phase circuits along with the problems dealt in this concept. The students should be aware to solve balanced and unbalanced circuits along with their phasor diagram representations.

Rules Executed

- Choose a problem in 3 phase circuits for either balanced or Unbalanced systems.
- Write down the given parameters.
- With the above parameters, compute the remaining parameters based on the type of the circuit.
- Confirm whether you had calculated both voltages and current for Phase and Line
- Now compute Active, Reactive and Apparent Powers.
- Finally draw the Phasor diagram with the obtained parameters.
- Take a photo with the above pages and post it in the group