19EE301- ELECTRIC CIRCUITS

Topic:

Kirchhoff's Current Law and Kirchhoff's Voltage Law

Overview of the Topic

Kirchoff's Current Law (KCL) states that, 'in an electric network, the algebraic sum of currents meeting at any junction is zero'. Since charges can never accumulate at any point, the charges flowing towards a junction must be equal to the charges flowing away from the junction.

Kirchoff's Voltage Law (KVL) states that, 'in an electric network, the algebraic sum of voltages in a closed path is zero'. Since potential at a point is a single value, the sum of all potential drops must be equal when traversing a closed path and coming back to the same point.

Teaching Method

Video Lecture

Proof for the activity

https://youtu.be/anp3T49kfvw

Feedback from the students about the activity and Knowledge gained

Students got the knowledge about the working of kirchoff's laws in simulation and hardware ..

Outcome of the activity

Students are able to do the simulation and hardware connections of any circuit and can able to check KCL and KVL