

There are many theories and speculation to say that the two forces are somewhat related. Electrostatic and Gravitational forces are two of the four fundamental forces of the universe. Lets see similarities between electrostatic force and gravitational force here on this page.

Similarities Between Electrostatic Force and Gravitational Force

1. The strength of both forces depends on the distance. Both of the forces obey the inverse square law of distance.
2. Both the electrostatic force and the gravitational force are the central forces. i.e, they act along the line joining the centers of two interacting bodies.
3. Both forces can operate even in vacuum.
4. They are conservative forces, i.e, the work done by them does not depend upon the path followed.