Ch 18 HW Quiz #2B

A 1.2-kg block is immersed in a uniform electric field and sliding across a frictionless surface with an initial velocity of 2.0 m/s. With a meter stick and stopwatch, a student observes that the block covers a distance of 1.0 meters in 0.38 seconds. Assume that the only forces present in the problem are gravity, normal force and the electric force. What is the magnitude and direction of the electric field in which the block is immersed?

$q_3 = +3.14 \ \mu C$