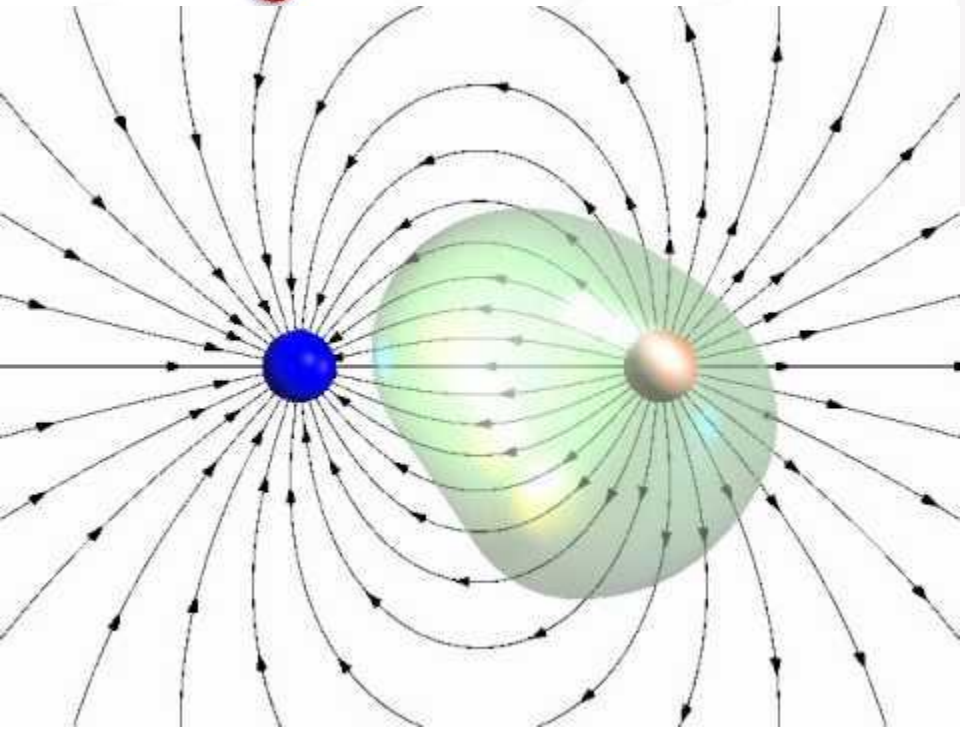
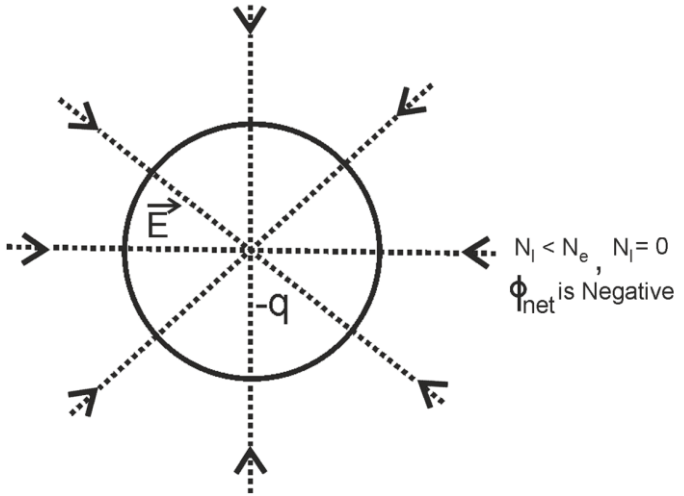
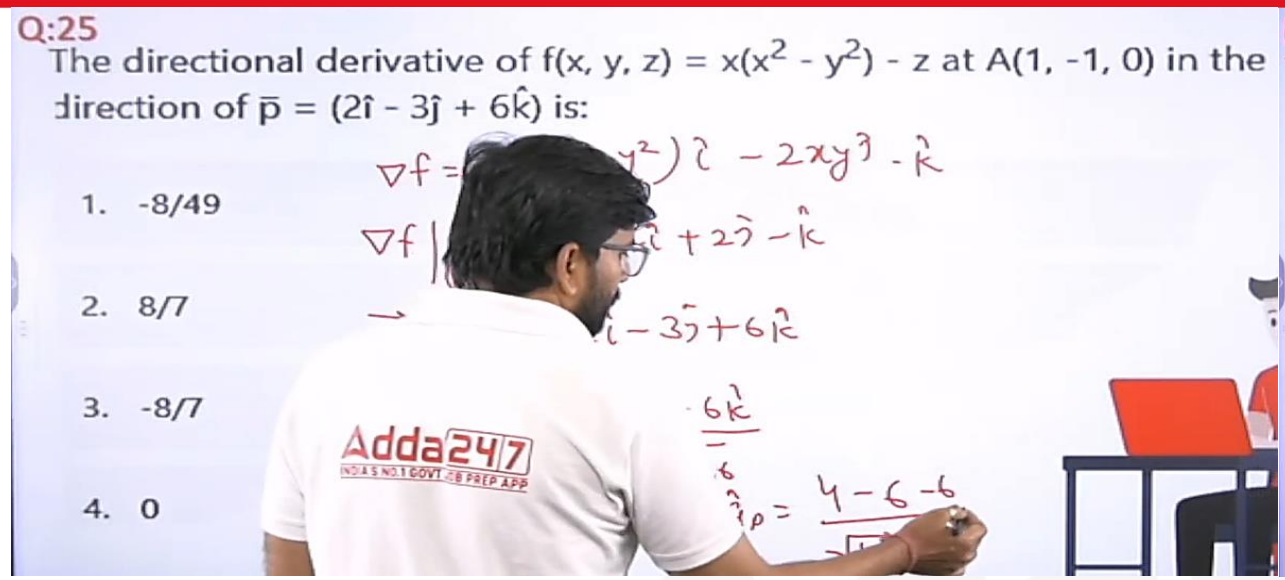
Vector Differentials

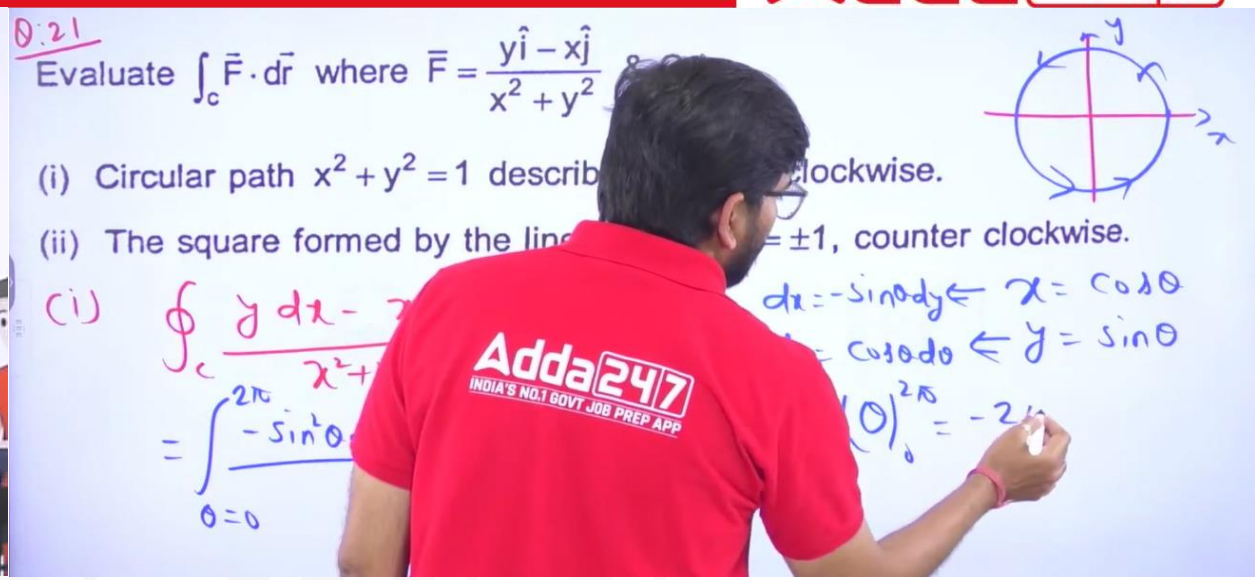
Applications of Gauss Law
Electric Field calculations due to line, surface,
Spherical volume charge



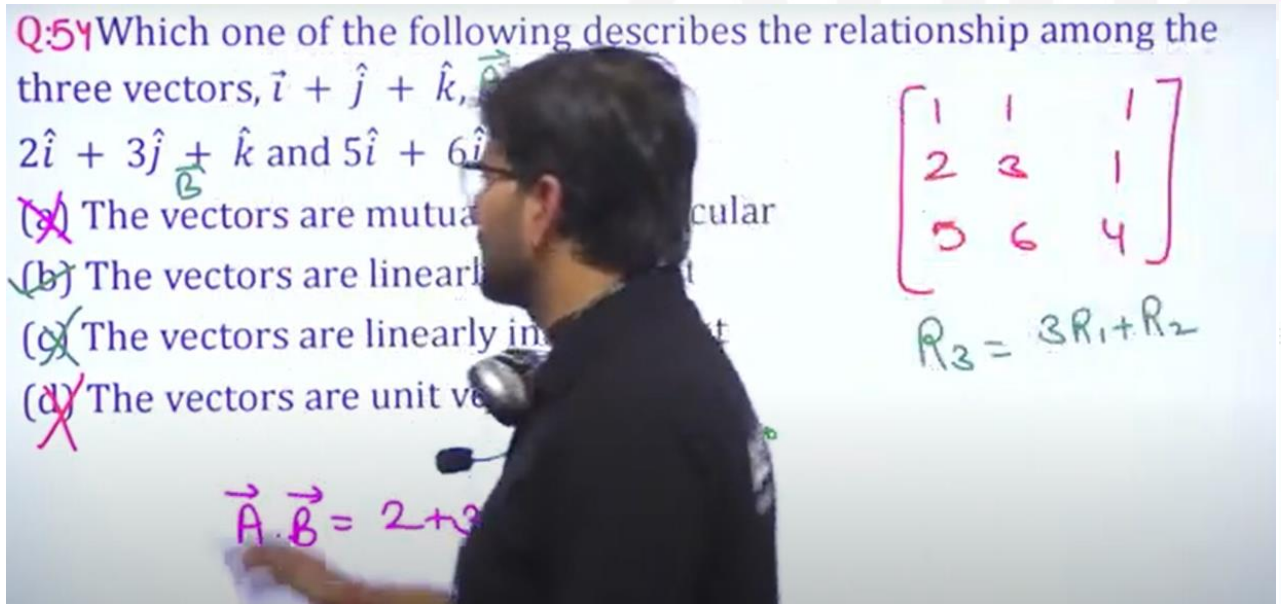


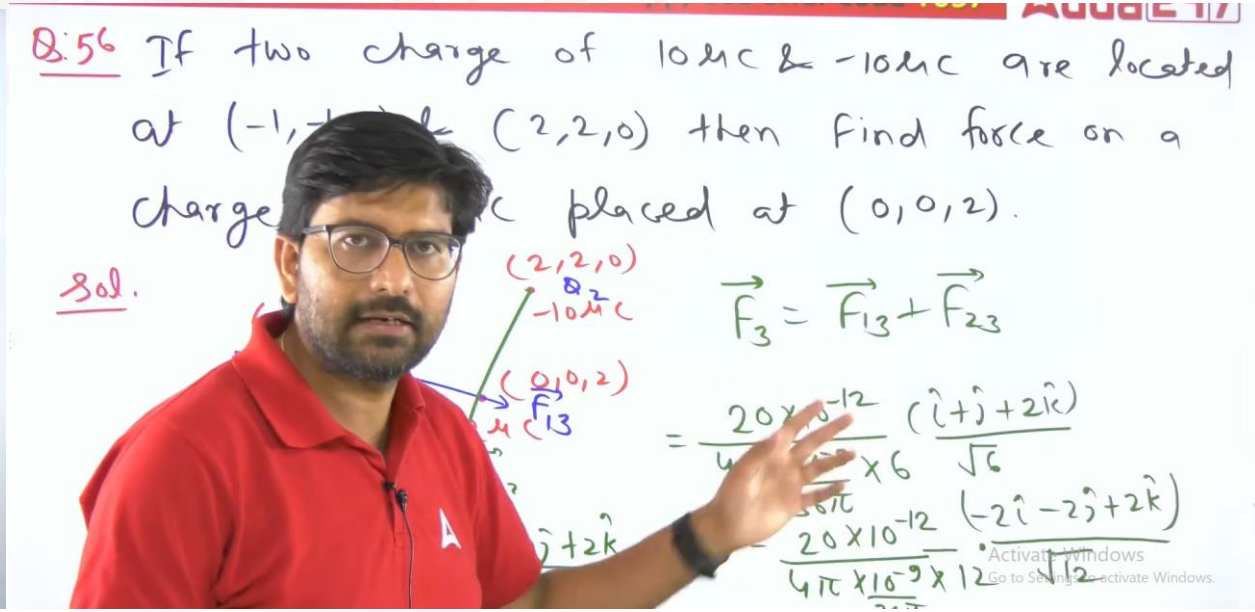
Recap





Number of Questions covered-56





Divergence and Curl

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GATE 2024

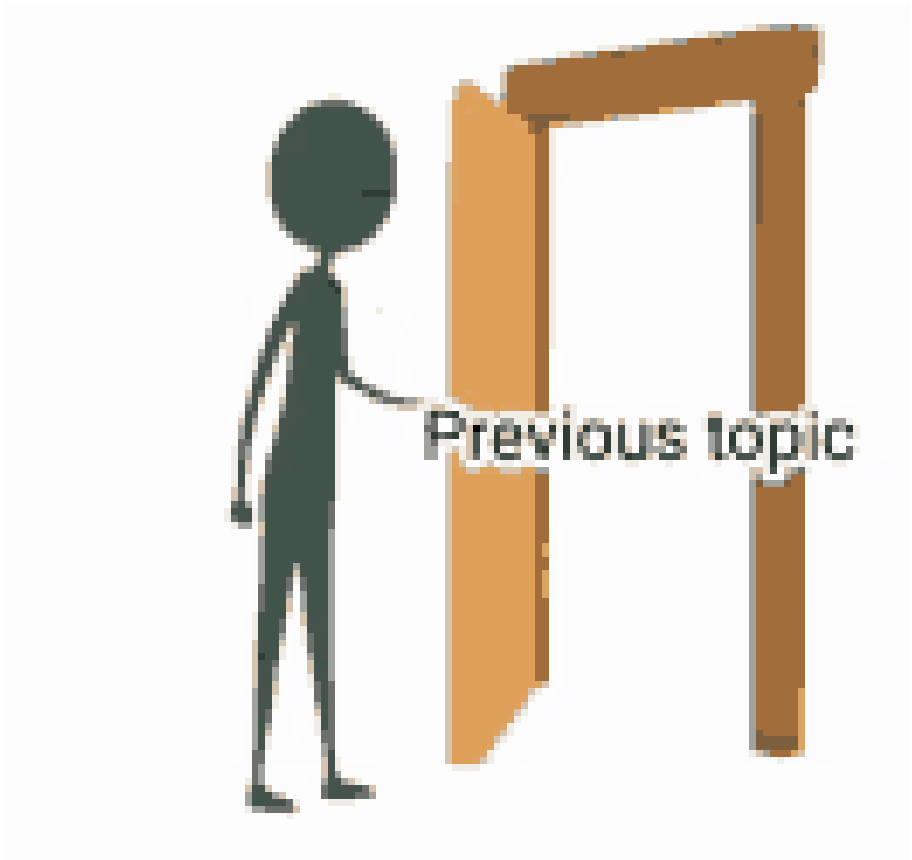
प्रचण्ड Batch

Electromagnetic Field Theory

FIELDS DUE TO LINE, SURFACE AND SPHERICAL VOLUME CHARGES

LEC–11

EE &ECE



1. Basic introduction of Fields
2. Basics of Vectors
3. Coordinate Systems
4. Vector Integrals
5. Vector differentials
6. Coulomb’s law and Gauss law

Vector Differentials

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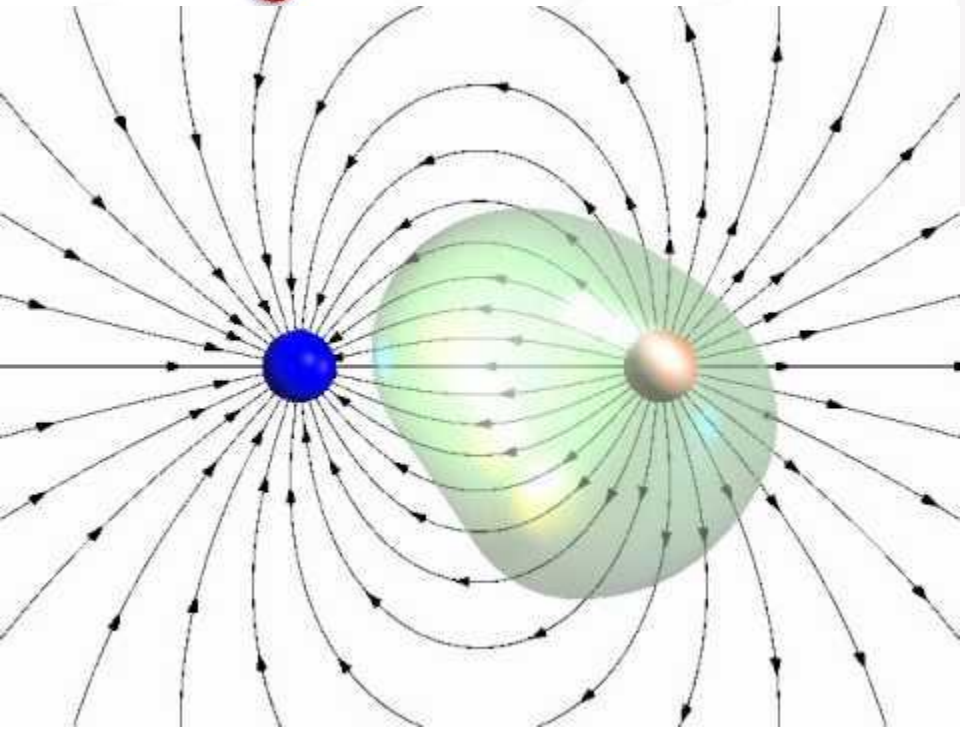

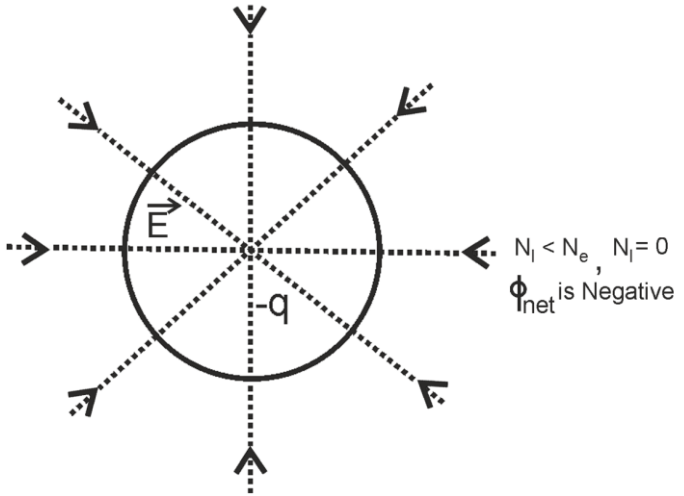

Electric Field calculations due to point Charge

Gauss Law

Electric Field Calculations due to uniformly charged line Charge

Electric Field Calculations due to uniformly charged line Charge

Electric Field Calculations due to uniformly charged Surface Charge

Electric Field Calculations due to uniformly charged Surface Charge

Electric Field Calculations due to uniformly charged Surface Charge

Electric Field Calculations due to uniformly charged Spherical volume Charge

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