

What are covered in the second exam

1. Gauss' Law, using it to calculate electric field
2. Electric potential energy and potential, relation with electric field
3. Charges and dipoles in electric field
4. Field lines and equipotential surface
5. Capacitors and battery, circuit of capacitors: capacitance, energy, and equivalent capacitance
6. Current, current density, drift velocity
7. Resistance and Ohm's Law
8. Kirchhoff's loop rule and junction rule