# Concept of Basic Electrical and Electronics Engineering

Ohm’s law

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Electric voltage, current

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Power and energy

<https://www.electricity-magnetism.org/power-and-energy-in-electric-circuits/>

Conducting and insulating materials <https://www.physicsclassroom.com/class/estatics/Lesson-1/Conductors-and-Insulators>

Series and parallel electric circuits

<https://www.allaboutcircuits.com/textbook/direct-current/chpt-5/simple-series-circuits/> <https://www.allaboutcircuits.com/textbook/direct-current/chpt-5/simple-parallel-circuits/>

Star-delta and delta-star conversion <https://www.electronics-tutorials.ws/dccircuits/dcp_10.html>

Kirchhoff’s law

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Linear and non-linear circuit

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Bilateral and unilateral circuits

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Active and passive circuits

<https://www.electrical4u.com/active-and-passive-elements-of-electrical-circuit/>

Superposition theorem

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Thevenin’s theorem

<https://www.allaboutcircuits.com/textbook/direct-current/chpt-10/thevenins-theorem/>

Norton`s theorem

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Maximum power transfer theorem

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R-L, R-C, R-L-C circuits

<https://circuitdigest.com/tutorial/rc-rl-and-rlc-circuits>

Resonance in AC series and parallel circuits

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Boolean Algebra  
<https://www.mi.mun.ca/users/cchaulk/misc/boolean.htm>

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