

PHYSICS 6370 version 4
Describe and construct simple electrical systems

Electricity
Level 1, 3 credits

Describe a simple electrical system;
Draw a circuit diagram for a simple electrical system; and
Construct a simple electrical circuit from a circuit diagram.

You will be able to:

- Distinguish between conductors and insulators by considering *the movement of charges*.
 - conductors
 - insulators

- Identify the function of components in a circuit in terms of current and/or energy transfer
 - resistor
 - bulb
 - switch
 - ammeter
 - fuses

- Describe the relationship between current measurements at various points in a circuit.
 - Series circuit
 - Parallel circuit

- Describe the relationship between the supply voltage and the voltage across components in a circuit.
 - Series circuit
 - Parallel circuit

- Draw a circuit diagram for a simple electrical system, using approved symbols and format.

- Draw a circuit diagram that will enable a circuit to perform a prescribed function.

- Construct a simple electrical circuit from a circuit diagram.