

## Learning outcomes

On completion of the course the student shall be able to:

- calculate the fundamental parameters for antennas and the radiation field from an antenna using potential functions
- describe the radiation from isolated, linear wire antennas and from linear elements near or on a conducting surface
- account for circular loop antennas and apply the field equivalence principle to aperture antennas
- account for the most important properties of travelling wave antennas, broadband antennas and microstrip antennas and how to match an antenna to a transmission line
- account for the principles of antenna arrays, and use antenna synthesis in order to design arrays
- account for the basic methods for antenna measurements