

ELEC9781 Real-time Digital Simulation

Real-time Digital Simulation or RTDS refers to the modelling and simulation of power systems and power electronics in dedicated multiprocessor computers that can compute all of the circuit nodes in real-time (1 second simulation for 1 second operation). RTDS for power systems is becoming more attractive in the power industry for real-time evaluation and testing of high-voltage AC (HVAC), high-voltage DC (HVDC) networks, and verification of protection settings.

Pre-requisites for ELEC9781: ELEC4614 Power Electronics AND ELEC4612 Power System Analysis. Students must have completed at least 24 UOC in their Masters program, or be a 5th year BE ME student.

(Note: this is a small course and numbers will be capped)