

ECSE 535. NANOELECTRONIC DEVICES.

Credits: 3

Offered by: Electrical & Computer Engr (Faculty of Engineering)

This course is not offered this catalogue year.

Description

Physical principles and modelling of nanoelectronic devices. Bandstructure and electronic density of states, Quantum wells, wires and dots. Ballistic electron transport, tunnelling and scattering mechanisms. Electrical and optical properties of nanostructures, fundamental performance limits. Research devices and materials.

- (3-0-6)
- Prerequisites: PHYS 271 and (ECSE 352 or ECSE 354)

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