

ECSE 536. RF MICROELECTRONICS.

Credits: 3

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

Terms offered: Winter 2026

View offerings for Winter 2026 in Visual Schedule Builder.

Description

Introduction to Radio Frequency Integrated Circuits and wireless transceiver architectures. Modelling of passive/active integrated devices. Design of monolithic bipolar and CMOS LNAs, mixers, filters, broadband amplifiers, RF power amplifiers, VCOs, and frequency synthesizers. Analysis of noise and non-linearity in RFICs. Project using modern RFIC simulation/layout CAD tools.

- Restriction: Instructor's permission required.
- (3-3-3)
- Prerequisite: ECSE 335 and permission of the instructor.

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