MOBILE COMMUNICATIONS DEVICES CURRICULUM

MOBILE DEVICE ARCHITECTURE

Topics: Mobile device architecture and implementation. Network access technologies. Operating systems. Standards.

Labs: External hardware features and functions of limited data mobile devices (LDMD), basic data mobile devices (BDMD), and enhanced data mobile devices (EDMD). Internal components and micro-architectural designs. Bluetooth, Wi-Fi, and Cellular network connectivity. Device initialization and configuration processes. Elementary coding and scripting. Interoperability and standards initiatives research.

Resources:

MOBILE DEVICE PROGRAMMING

Topics: Application programming and scripting languages including Java ME, Python, BREW, and Adobe Flash Lite. Code development, compilation and testing using developer tools and integrated development environments (IDEs) for contemporary mobile devices.


Resources:

MOBILE DEVICE HARDWARE

Topics: Internal and micro-architectural design of contemporary mobile devices. Mobile device programming, configuration and networking.


Resources: