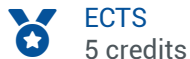


SYSTEMES, APPLICATIONS MOBILES ET SECURITE



Component
École Nationale
Supérieure
d'Électrotechnique
d'Électronique
d'Informatique
d'Hydraulique
et des
Télécommunications

In brief

➤ **Code:** N8EN20

Presentation

Description

At the end of this UE, the student knows about the stakes at play, the methods and the best practices tailored for systems, security and mobiles application programming ; he knows the major mechanisms underlying these technologies and is able to leverage this knowledge to design and evaluate secured applications for fixed or mobile systems.

The first class introduces the core principles of operating systems (file, process, memory management). The student gets as well the basics in multithread programming.

The second class is dedicated to mobile application design. Labs and project programs are developed for Android systems. The project's aim is to have an application that enables 2 mobile devices to exchange data over a wireless interface (e.g. Bluetooth, WiFi). The last class presents the basics of security for computer systems (definitions, problems and risks) focusing specially on network security.