

Wireless Networks: from Cellular to Connected Objects

University:	L'X
Level:	MA1, MA2
Teaching mode:	hybrid: some students participate online, other students attend real-life
Instructor(s):	Marceau Coupechoux, Juan-Antonio Cordero Fuentes

Description

More specifically the outline of the course is as follows: Overview of Wireless Networks; Wireless Communications; Random Access; Deterministic Access Schemes; Radio Link Control; F/TDMA Cellular Access; OFDMA Cellular Access; IoT Protocols; Radio Interface of 5G New Radio; Scheduling in Wireless Networks

Learning outcomes

Deep understanding of wireless networks at lower layers from a performance and protocol perspective.

General information

Contact hours per week:	4 hours
Total workload:	60 hours
ECTS credits:	5
Language:	English
Course start date:	03/01/2022
Course end date:	18/03/2022
Add. info about start date:	
Weekly teaching day/time:	
Time zone:	CET (Denmark, Germany, France, Netherlands, Switzerland, Czech Republic)

Further information:

Prerequisites:	basics in networks
Activities and methods:	Lectures, Exercises, + Project
Presence on campus:	no

Final examination

Form:	project oral defense, project report, written assignments at home
Date:	
Location/format:	online
Re-sit possibility:	no
Transcript available:	approx. 6 weeks after the exam's date
Add. info/requirements:	End of March 2022

Registration

To register for this course, follow the registration requirements of your **home university** as specified here: www.euroteq.eu/courses-registration.

Administration

Number of places:	6
Minimum participants:	
Internal course code:	INF567
Contact:	exchange-international@polytechnique.fr

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