LELEC2880

2013-2014

Modem design

5.0 credits	30.0 h + 30.0 h	2q

Teacher(s) :	Louveaux Jérôme ; Vandendorpe Luc ;
Language :	Anglais
Place of the course	Louvain-la-Neuve
Inline resources:	> http://icampus.uclouvain.be/claroline/course/index.php?cid=ELEC2880
Aims :	*The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".*
Content :	Introduction to digital communication systems Random signals, modulations and detection Coherent and noncoherent demodulation Basics of Information theory Convolutional codes and introduction to turbo codes Adaptive modulation and coding Equalization (Linear and decision-feedback) Multi-carrier and OFDM systems Synchronization (time, frequency and phase)
Cycle and year of study :	> Master [120] in Electrical Engineering > Master [120] in Mathematical Engineering > Master [120] in Electro-mechanical Engineering
Faculty or entity in charge:	ELEC