LELEC2880

2015-2016

Modem design

5.0 credits	30.0 h + 30.0 h	2q

Teacher(s) :	Vandendorpe Luc ; Louveaux Jérôme ;
Language :	Anglais
Place of the course	Louvain-la-Neuve
Inline resources:	Moodle > http://moodleucl.uclouvain.be/course/view.php?id=4823
Aims :	With respect to the AA referring system defined for the Master in Electrical Engineering, the course contributes to the development, mastery and assessment of the following skills : -- AA1.1, AA1.2, AA1.3 -- AA2.1, AA2.2, AA2.4 -- AA3.1 -- AA4.2, AA4.4 -- AA5.3, AA5.5 *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)
Faculty or entity in charge:	ELEC

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Master [120] in Electrical Engineering	ELEC2M	5	-	
Master [120] in Mathematical Engineering	MAP2M	5	-	