

5.0 credits	30.0 h + 30.0 h	1q
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Teacher(s) :	Flandre Denis ;
Language :	Anglais
Place of the course	Louvain-la-Neuve
Inline resources:	http://icampus.uclouvain.be/claroline/course/index.php?cid=LELEC2650
Prerequisites :	This course is based on the a priori knowledge of fundamental concepts of electronics circuits and devices (Bac level, see courses LELEC1330 and 1530 for reference). The course is better suited for students in 2nd year of ELEC ou ELME Master, preferably after following the course LELEC2532.
Aims :	<i>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".</i>
Evaluation methods :	The exam features two parts : The realization of an original work in groups of 2 students during the 2nd semi-quadrimester on the analysis of a case study, on the basis of technical articles and the practice on this case, of the methods and techniques of synthesis of the course. A written report must be delivered for the start of the January exam session and is orally discussed during the written exam. The written exam is individual and open-book. Main questions are on the analysis of a technical article (explanations of concepts, equations and performances ; proposition of a sizing algorithm). In addition, a few short questions are on important concepts discussed in the course.
Cycle and year of study :	> Master [120] in Electro-mechanical Engineering > Master [120] in Electrical Engineering
Faculty or entity in charge:	ELEC