

5.0 credits	30.0 h + 22.5 h	2q
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Teacher(s) :	Willem Michel ;
Language :	Français
Place of the course	Louvain-la-Neuve
Inline resources:	 > http://icampus.uclouvain.be/claroline/course/index.php?cid=LINMA1315
Main themes :	Metric spaces, Lebesgue integral, normed spaces, Hilbert spaces.
Aims :	AA 1.1, 1.2, 1.3, 3.1, 6.1. <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 :	Written examination : theory, exercises and partly original problems. window.parent.CKEDITOR._["contentDomReadyeditionForm:j_idt76:richtext"] (window) ;
Teaching methods :	Lectures with dialoguee, exercises. The main points are critical understanding of the theory and active problem solving.
Content :	-- Metric spaces, continuity, convergence. -- Cauchy integral, Lebesgue integral, multiple integrals, change of variables. -- Normed spaces, continuous linear mappings, Hilbert space, elementary spectral theorem
Bibliography :	M. Willem, « Functional Analysis. Fundamentals and Applications », Birkhauser, 2013. Available on line or in bookstores.
Other infos :	window.parent.CKEDITOR._["contentDomReadyeditionForm:j_idt79:richtext"] (window) ;
Faculty or entity in charge:	MAP