

11.0 credits

75.0 h + 60.0 h

Teacher(s) :	Ponce Augusto ; Van Schaftingen Jean ; Hanert Emmanuel ; Dos Santos Santana Forte Vaz Pedro ; Gran Marino ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	<p>The teaching involves four important parts. The content of the first semester includes a rather quick survey of topics studied at secondary school which are placed in a new view.</p> <p>I. Differential and integral calculus.</p> <p>a) Numbers and functions.</p> <p>b) Functions of one real variable.</p> <p>c) Complex numbers</p> <p>d) Integration and primitivation.</p> <p>II. Basic linear algebra and matrices.</p> <p>III. Functions of several variables.</p> <p>IV. Introduction to differential equations.</p>
Aims :	<p>The aim of this teaching is to present basic tools of algebra and analysis in view of their use in natural sciences. It should also initiate the students to mathematical reasoning. Illustrations and direct applications to natural sciences should be particularly stressed.</p> <p><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></p>
Other infos :	<p>Prerequisites: Mean level in mathematical. Consistent work, logical mind, rigor, accuracy, analyse and initiative in front of problems are needed for succes.</p> <p>Evaluation: Written examination aiming to verify the assimilation of overall subjects (theory and practical exercises).</p> <p>Support: Syllabus (available at CIACO)</p> <p>Staff support: Teacher exposes overall subjects during theoretical classes. Teaching assistants are responsible for practical exercise sessions.</p>
Cycle and year of study :	<p>&gt; <a href="#">Bachelor in Information and Communication</a></p> <p>&gt; <a href="#">Bachelor in Philosophy</a></p> <p>&gt; <a href="#">Bachelor in Pharmacy</a></p> <p>&gt; <a href="#">Bachelor in Computer Science</a></p> <p>&gt; <a href="#">Bachelor in Economics and Management</a></p> <p>&gt; <a href="#">Bachelor in Motor skills : General</a></p> <p>&gt; <a href="#">Bachelor in Human and Social Sciences</a></p> <p>&gt; <a href="#">Bachelor in Sociology and Anthropology</a></p> <p>&gt; <a href="#">Bachelor in Political Sciences: General</a></p> <p>&gt; <a href="#">Bachelor in Mathematics</a></p> <p>&gt; <a href="#">Bachelor in Biomedicine</a></p> <p>&gt; <a href="#">Bachelor in Engineering</a></p> <p>&gt; <a href="#">Bachelor in Religious Studies</a></p>
Faculty or entity in charge:	MATH