

5.0 credits	22.5 h + 30.0 h	2q
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Teacher(s) :	Hagendorf Christian ; Haine Luc ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	<p>Review of the background of the course of general physics. Systems with one degree of freedom. Motion in a central field. Lagrange's equations. Linearised systems.</p>
Aims :	<p>The course is a natural follow up of the courses Mathematical Analysis 1, Linear Algebra and General Physics 1. It completes the skills acquired in those courses, by combining several notions which have been studied previously.</p> <p>More specifically, the course of Mathematical Methods of Classical Mechanics 1 aims at developing the mathematical modeling of various situations, and establishing a dialogue between the physical problems and the mathematical techniques of resolution.</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 :	Prerequisites: course of mathematical analysis I, linear algebra and general physics I.
Cycle and year of study :	> Bachelor in Physics > Bachelor in Mathematics
Faculty or entity in charge:	MATH