

5.0 credits	22.5 h + 30.0 h	1q
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Teacher(s) :	Haine Luc ; Hagendorf Christian ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	Variational principals and Hamilton mechanics Symmetry and conversation laws. Dynamics of solid bodies.
Aims :	This course follows the Mathematical methods of classical mechanics 1. Numerous modern mathematical theories owe their existence to problems of mechanics and only later did they acquire an independent existence. In this optic, an important part of the course is dedicated to the variational principles, to symmetries and conversation laws, as well as to the Hamiltonian formalism. These methods are applied to the study of the motion of the rigid body. <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>
Cycle and year of study :	> Bachelor in Physics > Bachelor in Mathematics > Bachelor in Economics and Management > Bachelor in Engineering
Faculty or entity in charge:	MATH