

5.0 credits

30.0 h + 15.0 h

1q

Teacher(s) :	Canini Marco ;
Language :	Anglais
Place of the course	Louvain-la-Neuve
Main themes :	<ul style="list-style-type: none"> <li>-- Architectural principles of cloud computing</li> <li>-- Scalability of cloud services (storage, computing, ...)</li> <li>-- Building blocks for cloud services</li> <li>-- Large scale computations in cloud environments</li> <li>-- Programming models for cloud services</li> <li>-- Providing scalable web services from the cloud</li> </ul>
Aims :	<p>Given the learning outcomes of the "Master in Computer Science and Engineering" program, this course contributes to the development, acquisition and evaluation of the following learning outcomes:</p> <ul style="list-style-type: none"> <li>-- INFO1.1-3</li> <li>-- INFO2.2-3, INFO2.5</li> <li>-- INFO5.2, INFO5.4-5</li> <li>-- INFO6.1, INFO6.3, INFO6.4</li> </ul> <p>Given the learning outcomes of the "Master [120] in Computer Science" program, this course contributes to the development, acquisition and evaluation of the following learning outcomes:</p> <ul style="list-style-type: none"> <li>-- SINF1.M1</li> <li>-- SINF2.2-3, SINF2.5</li> <li>-- SINF5.2, SINF5.4-5</li> <li>-- SINF6.1, SINF6.3, SINF6.4</li> </ul> <p>Students having completed this course successfully will be able to</p> <ul style="list-style-type: none"> <li>-- explain the goals, benefits and models of cloud computing, providing practical examples</li> <li>-- describe the main components of cloud computing</li> <li>-- design and conceive cloud services which operate reliably at scale</li> <li>-- explain how storage and virtualization are used in the cloud and apply this in practice</li> <li>-- apply the fundamental principles of multi-tier web applications and services in a cloud environment</li> <li>-- tackle big data computation problems (e.g., through the Map Reduce computing paradigm)</li> </ul> <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>Background :</p> <ul style="list-style-type: none"> <li>-- LINGI1341</li> <li>-- LSINF1121</li> </ul>

Cycle and year of study :	<a href="#">&gt; Master [120] in Computer Science</a> <a href="#">&gt; Master [120] in Computer Science and Engineering</a>
Faculty or entity in charge:	INFO