

5.0 credits	30.0 h + 0.0 h	1q
-------------	----------------	----

Teacher(s) :	Meskens Nadine ;
Language :	Français
Place of the course	Mons
Main themes :	<ul style="list-style-type: none"> <li>- Introduction to Data Mining</li> <li>- Knowledge discovery process</li> <li>- Decision tree : algorithms CART and ID3</li> <li>- Cross-validation, bootstrap</li> <li>- Tree pruning</li> <li>- bagging, boosting, arcing</li> <li>- Random forest</li> <li>- ROC curves</li> <li>- Market basket analysis</li> <li>- Neural network</li> <li>- Cluster analysis : Hierarchical methods, K-means</li> <li>- Rough sets</li> <li>- Trends in data mining</li> <li>- Software : TANAGRA et SAS enterprise Miner</li> <li>- Applications</li> </ul>
Aims :	<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 :	Oral examination
Teaching methods :	-- Lectures -- Course-related exercises -- Use of software -- Case studies
Bibliography :	-- HAN J., KAMBER M. (2006), Data mining:concepts and techniques, 2nd ed.Morgan Kaufmann. -- TUFFERY S. (2007), Data Mining et statistique décisionnelle :l'intelligence dans les bases de données, Technip.
Cycle and year of study :	<a href="#">&gt; Master [120] in Business engineering</a> <a href="#">&gt; Master [120] in Business Engineering</a>
Faculty or entity in charge:	BLSM