


Due to the COVID-19 crisis, the information below is subject to change, in particular that concerning the teaching mode (presential, distance or in a comodal or hybrid format).

5 credits	30.0 h	Q1
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Teacher(s)	Ait El Cadi Abdessamad (compensates Meskens Nadine) ;Meskens Nadine ;
Language :	French
Place of the course	Mons
Main themes	<ul style="list-style-type: none"> - Introduction to Data Mining - Knowledge discovery process - Decision tree : algorithms CART and ID3 - Cross-validation, bootstrap - Tree pruning - bagging, boosting, arcing - Random forest - ROC curves - Market basket analysis - Neural network - Cluster analysis : Hierarchical methods, K-means - Rough sets - Trends in data mining - Software : TANAGRA et SAS enterprise Miner - Applications
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>
Teaching methods	<p>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</p> <ul style="list-style-type: none"> • Lectures • Course-related exercises • Use of software • Case studies
Bibliography	<ul style="list-style-type: none"> • 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.
Faculty or entity in charge	CLSM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] : Business Engineering	INGM2M	5		
Master [120] : Business Engineering	INGE2M	5		