


5.00 credits

30.0 h

Q1

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
Learning outcomes	
Teaching methods	<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	Learning outcomes
Master [120] : Business Engineering	INGM2M	5		
Master [120] : Business Engineering	INGE2M	5		