


5.00 credits	30.0 h	Q1
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Teacher(s)	De Winne Rudy ;
Language :	French
Place of the course	Mons
Prerequisites	MQAHD1325 ' Management mathematics MQAHD1327 ' Statistical methods in management
Main themes	<p>Linear regression</p> <ul style="list-style-type: none"> <li>• Revision of the method of least squares applied to the estimate of the regression line;</li> <li>• Generalisation of the regression analysis in the multivariate case;</li> <li>• Properties of parameter estimators;</li> <li>• Formulation and logical test of hypothesis relating to parameters;</li> </ul> <p>Linearisable multivariate models.</p>
Learning outcomes	<p><b>At the end of this learning unit, the student is able to :</b></p> <p>On completion of this course, students will be able: in terms of knowledge:</p> <ul style="list-style-type: none"> <li>• to apply the principles and method of the multiple regression estimation models, both linear or linearised, to one or more explanatory variables.</li> </ul> <p><sup>1</sup> in terms of skills:</p> <ul style="list-style-type: none"> <li>• to ask pertinent questions, from a managerial perspective, regarding a proposed case and the characteristics of available data;</li> <li>• to select the appropriate statistical approach and apply it;</li> </ul> <p>to provide methodologically correct answers to the problem posed after disciplined interpretation of results both statistically and at a managerial level.</p>
Teaching methods	<ul style="list-style-type: none"> <li>• Lectures, partially based on the MOOC in econometrics developed at UCLouvain</li> <li>• Exercises in the computer room (Software used: R)</li> </ul>
Bibliography	<ul style="list-style-type: none"> <li>• JOHNSTON J., DINARDO J. (1999), Méthodes Econométriques, Economica, traduction de JOHNSTON J., DINARDO J. (1997), Econometric Methods, 2th ed. Mc Graw'Hill.</li> </ul>
Faculty or entity in charge	CLSM

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [60] in Management (shift schedule)	GEHM2M1	5		
Master [120] in Management (shift schedule)	GEHM2M	5		