Course Descriptions None 2025-2026

Course Title	Quantitative Introduction to Business
Course Code	EBC1036
ECTS Credits	6,5
Assessment	Whole/Half Grades

Period

Period	Start	End	Mon	Tue	Wed	Thu	Fri
1	1-9-2025	17-10-2025		X		X	L

Level	Introductory
Coordinator	Stan van Hoesel For more information:s.vanhoesel@maastrichtuniversity.nl
Language of instruction	English
Goals	In this course the student will get an overview of the concept of running a business, including the functional areas. In each area we focus on quantitative modelling and the decision making process. Specific learning goals are 1.Get an overview of all functional areas of running a business, and their role in the process. 2.For three specific functional areas a more in-depth discussion is integrated with the course. 3.The use of basic quantitative (both statistical and OR) techniques will be incorporated in the course mainly for showing where quantitative methods can be used to model and solve real-life business problems.
Description	This course introduces the most important managerial aspects of businesses, with the aim to provide the student with a clear overview of all functions that play a role in running a business. We discuss the functional areas within business with an emphasis on operations, and marketing. We will use a quantitative approach in the sense that for each of the areas one or two concepts are translated into models that can be solved with mathematical and statistical tools. These tools (and their further development during the studies) form an important element of the econometrics and OR study. This course aims at placing the tools in the right perspective from a managerial point of view. The technical level of the problems will be adapted to the knowledge of high school students. The set-up of the course is as follows: In the weeks 1-2: introduction business management and we discuss business strategy in general. In the weeks 3-4 we discuss problems on a strategic level such as strategic capacity management and location decisions. In the weeks 5-6 we discuss problems on the tactical level such as aggregate planning and inventory management. In week 7 we end with problems on the operational level such as job scheduling.
Literature	Operations Management, 12th ed. (Global edition) 2014, W.J. Stevenson, ISBN-13 9780077169527, ISBN-10 0077169522.
Prerequisites	None.
Keywords	
Transitional Regulations	
Teaching methods	PBL / Lecture
Assessment methods	Attendance / Participation / Written Exam
Evaluation in previous academic year	For the complete evaluation of this course please click http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM

This course belongs to the following programme / specialisation

Bachelor Econometrics and Operations Research	Year 1 Compulsory Courses