

Course Descriptions None 2020-2021

Course Title	Decision Support Systems and Business Modelling																																										
Course Code	EBC2088																																										
ECTS Credits	6,5																																										
Assessment	Whole/Half Grades																																										
Period	<table border="1"> <thead> <tr> <th>Period</th> <th>Start</th> <th>End</th> <th>Mon</th> <th>Tue</th> <th>Wed</th> <th>Thu</th> <th>Fri</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>12-4-2021</td> <td>28-5-2021</td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table>	Period	Start	End	Mon	Tue	Wed	Thu	Fri	5	12-4-2021	28-5-2021		X			X																										
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5	12-4-2021	28-5-2021		X			X																																				
Level	Intermediate																																										
Coordinator	Andre Berger For more information:a.berger@maastrichtuniversity.nl																																										
Language of instruction	English																																										
Goals	Understanding the role and operation of decision support systems. Independent development of a decision support system. Master programming in Excel and the design of user interfaces in VBA for Excel.																																										
Description	<p>PLEASE NOTE THAT THE INFORMATION ABOUT THE TEACHING AND ASSESSMENT METHOD(S) USED IN THIS COURSE IS WITH RESERVATION. THE INFORMATION PROVIDED HERE IS BASED ON THE COURSE SETUP PRIOR TO THE CORONAVIRUS CRISIS. AS A CONSEQUENCE OF THE CRISIS, COURSE COORDINATORS MAY BE FORCED TO CHANGE THE TEACHING AND ASSESSMENT METHODS USED. THE MOST UP-TO-DATE INFORMATION ABOUT THE TEACHING/ASSESSMENT METHOD(S) WILL BE AVAILABLE IN THE COURSE SYLLABUS. Decision support systems are computer-based systems for management decision makers who deal with semi-structured decision problems. A DSS is closely related to a MIS, a management information system. Where a MIS helps decision makers utilize data and models to solve structured problems, a DSS aims to give the same support, in case the problem is less structured (less routine). In this course, we will focus on the separate techniques that form the building blocks of a DSS: databases, spreadsheet models, recommendation model, and the user interface. Developing a business model as a decision aid for a self-designed choice problem is the major assignment of the course. We will use Excel and VBA as a tool to program our own DSS. Writing a management report describing the DSS and its possible implementation is the second practical assignment. Together, those two assignments compose the project done by small project groups of 2 students.</p>																																										
Literature	The course is built around a reader that will be distributed before the course. Secondary literature references about decision support systems in general will be provided in the reader.																																										
Prerequisites	Basic mastery of Excel, or an alternative spreadsheet application: cell referencing, building formulas, use of logical functions. This does not include mastery of VBA for Excel: training in VBA programming is part of the course.																																										
Teaching methods	An advanced level of English. PBL / Presentation / Lecture / Assignment / Groupwork																																										
Assessment methods	Final Paper / Oral 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	<table border="1"> <tbody> <tr> <td>Bachelor Economics and Business Economics - Economics</td> <td>Year 3 Quantitative Economics Elective(s)</td> </tr> <tr> <td>Bachelor Economics and Business Economics - Emerging Markets</td> <td>Year 3 Elective Course(s)</td> </tr> <tr> <td>Bachelor Economics and Business Economics - Economics and Management of Information</td> <td>Year 2+3 Quantitative Economics Elective(s)</td> </tr> <tr> <td>Bachelor Economics and Business Economics - International Business Economics</td> <td>Year 3 QE Elec(s) - Maj Accounting</td> </tr> <tr> <td>Bachelor Economics and Business Economics - International Business Economics</td> <td>Year 3 QE Elec(s) - Maj Finance</td> </tr> <tr> <td>Bachelor Economics and Business Economics - International Business Economics</td> <td>Year 3 QE Elec(s) - Maj Inf Mgmt</td> </tr> <tr> <td>Bachelor Economics and Business Economics - International Business Economics</td> <td>Year 3 QE Elec(s) - Maj Marketing</td> </tr> <tr> <td>Bachelor Economics and Business Economics - International Business Economics</td> <td>Year 3 QE Elec(s) - Maj Org</td> </tr> <tr> <td>Bachelor Economics and Business Economics - International Business Economics</td> <td>Year 3 QE Elec(s) - Maj SCM</td> </tr> <tr> <td>Bachelor Economics and Business Economics - International Business Economics</td> <td>Year 3 QE Elec(s) - Maj Strategy</td> </tr> <tr> <td>Bachelor International Business - Emerging Markets</td> <td>Year 3 Elective Course(s)</td> </tr> <tr> <td>Bachelor International Business</td> <td>Year 3 QE Elec(s) - Maj Accounting</td> </tr> <tr> <td>Bachelor International Business</td> <td>Year 3 QE Elec(s) - Maj Finance</td> </tr> <tr> <td>Bachelor International Business</td> <td>Year 3 QE Elec(s) - Maj Inf Mgmt</td> </tr> <tr> <td>Bachelor International Business</td> <td>Year 3 QE Elec(s) - Maj Marketing</td> </tr> <tr> <td>Bachelor International Business</td> <td>Year 3 QE Elec(s) - Maj Org</td> </tr> <tr> <td>Bachelor International Business</td> <td>Year 3 QE Elec(s) - Maj SCM</td> </tr> <tr> <td>Bachelor International Business</td> <td>Year 3 QE Elec(s) - Maj Strategy</td> </tr> <tr> <td>SBE Exchange Bachelor</td> <td>Bachelor Exchange Courses</td> </tr> <tr> <td>SBE Exchange Master</td> <td>Bachelor Exchange Courses</td> </tr> <tr> <td>SBE Non Degree Courses</td> <td>Bachelor Courses</td> </tr> </tbody> </table>	Bachelor Economics and Business Economics - Economics	Year 3 Quantitative Economics Elective(s)	Bachelor Economics and Business Economics - Emerging Markets	Year 3 Elective Course(s)	Bachelor Economics and Business Economics - Economics and Management of Information	Year 2+3 Quantitative Economics Elective(s)	Bachelor Economics and Business Economics - International Business Economics	Year 3 QE Elec(s) - Maj Accounting	Bachelor Economics and Business Economics - International Business Economics	Year 3 QE Elec(s) - Maj Finance	Bachelor Economics and Business Economics - International Business Economics	Year 3 QE Elec(s) - Maj Inf Mgmt	Bachelor Economics and Business Economics - International Business Economics	Year 3 QE Elec(s) - Maj Marketing	Bachelor Economics and Business Economics - International Business Economics	Year 3 QE Elec(s) - Maj Org	Bachelor Economics and Business Economics - International Business Economics	Year 3 QE Elec(s) - Maj SCM	Bachelor Economics and Business Economics - International Business Economics	Year 3 QE Elec(s) - Maj Strategy	Bachelor International Business - Emerging Markets	Year 3 Elective Course(s)	Bachelor International Business	Year 3 QE Elec(s) - Maj Accounting	Bachelor International Business	Year 3 QE Elec(s) - Maj Finance	Bachelor International Business	Year 3 QE Elec(s) - Maj Inf Mgmt	Bachelor International Business	Year 3 QE Elec(s) - Maj Marketing	Bachelor International Business	Year 3 QE Elec(s) - Maj Org	Bachelor International Business	Year 3 QE Elec(s) - Maj SCM	Bachelor International Business	Year 3 QE Elec(s) - Maj Strategy	SBE Exchange Bachelor	Bachelor Exchange Courses	SBE Exchange Master	Bachelor Exchange Courses	SBE Non Degree Courses	Bachelor Courses
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