

## Course Descriptions NonDegree 2019-2020

|              |                               |
|--------------|-------------------------------|
| Course Title | Supply Chain Research Methods |
| Course Code  | EBC4088                       |
| ECTS Credits | 6,5                           |
| Assessment   | Whole/Half Grades             |
| Period       |                               |

| Period | Start      | End        | Mon | Tue | Wed | Thu | Fri |
|--------|------------|------------|-----|-----|-----|-----|-----|
| 2      | 28-10-2019 | 20-12-2019 | X   |     |     | X   |     |
| 5      | 14-4-2020  | 5-6-2020   | X   |     |     | X   |     |

|   |   |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
|---|---|--|-----------------------------------|--|--------------------------------|--|---------------------------|--|---------------------------|---|----------------------|---------------------|-------------------------|------------------------|----------------|
| Level   | Advanced  |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| Coordinator   | Rudolf Müller For more information:r.muller@maastrichtuniversity.nl   |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| Language of instruction   | English   |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| Goals   | At the end of this course, the students can use several quantitative techniques necessary for the management and improvement of the supply chain.   |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| Description   | This course focuses on mathematical techniques for managing and improving the supply chain. These techniques include data collection and analysis and forecasting techniques. Moreover, to streamline the supply chain several optimisation techniques from operations research are being taught.   |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| Literature  | Ragsdale, Cliff T., Spreadsheet Modeling and Decision Analysis, 8th edition, Cengage Learning, 2018.<br>Hanke, John E. and Wichern, Dean W., Business Forecasting, 9th international edition, Pearson Education, 2009.  |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| Prerequisites   | Basics in linear programming, statistics and familiarity with Excel<br>An advanced level of English.  |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| Teaching methods  | PBL / Presentation / Assignment / Groupwork   |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| Assessment methods  | Final Paper / Attendance / Participation / Written Exam / Presentation  |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| Evaluation in previous academic year                            | For the complete evaluation of this course please click <a href="http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM">http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM</a>   |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| This course belongs to the following programme / specialisation | <table> <tr> <td>Master Business Research - No specialisation</td><td>Year 1 Disc- IB Supply Chain Mgmt</td></tr> <tr> <td>Master Business Research - No specialisation</td><td>Year 2 Methodology Elective(s)</td></tr> <tr> <td>Master Business Research - Operations Research</td><td>Year 1 Elective Course(s)</td></tr> <tr> <td>Master Business Research - Operations Research</td><td>Year 2 Elective Course(s)</td></tr> <tr> <td>Master International Business - Supply Chain Management</td><td>Compulsory Course(s)</td></tr> <tr> <td>SBE Exchange Master</td><td>Master Exchange Courses</td></tr> <tr> <td>SBE Non Degree Courses</td><td>Master Courses</td></tr> </table> | Master Business Research - No specialisation | Year 1 Disc- IB Supply Chain Mgmt | Master Business Research - No specialisation | Year 2 Methodology Elective(s) | Master Business Research - Operations Research | Year 1 Elective Course(s) | Master Business Research - Operations Research | Year 2 Elective Course(s) | Master International Business - Supply Chain Management | Compulsory Course(s) | SBE Exchange Master | Master Exchange Courses | SBE Non Degree Courses | Master Courses |
| Master Business Research - No specialisation                    | Year 1 Disc- IB Supply Chain Mgmt   |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| Master Business Research - No specialisation                    | Year 2 Methodology Elective(s)  |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| Master Business Research - Operations Research                  | Year 1 Elective Course(s)   |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| Master Business Research - Operations Research                  | Year 2 Elective Course(s)   |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| Master International Business - Supply Chain Management         | Compulsory Course(s)  |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| SBE Exchange Master   | Master Exchange Courses   |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |
| SBE Non Degree Courses  | Master Courses  |  |                                   |  |                                |  |                           |  |                           |   |                      |                     |                         |                        |                |