

### M.Sc. Data Science - Application Area: Business and Economics

|                                                                          | 1. Semester (Winter)                                                                                                                                                 | 2. Semester (Summer)                                                                                | 3. Semester (Winter)                                                                                               | 4. Semester (Summer)                 |          |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------|
| Computer Science                                                         | <div>Elective Course Computer Science<br/>5 ECTS</div> <div>Elective Course Computer Science<br/>5 ECTS</div> <div>Elective Course Computer Science<br/>5 ECTS</div> | <div>Elective Course Computer Science<br/>5 ECTS</div>                                              | <div>Seminar Computer Science<br/>5 ECTS</div>                                                                     | <div>Master Thesis<br/>30 ECTS</div> | 55 ECTS  |
| Mathematics                                                              | <div>RampUp Mathematics<br/>10 ECTS</div>                                                                                                                            | <div>Elective Course 1 Mathematics<br/>10 ECTS</div>                                                | <div>Elective Course 1 Mathematics<br/>10 ECTS</div> <div>Practical Course Mathematics<br/>5 ECTS</div>            |                                      | 35 ECTS  |
| Application Area                                                         |                                                                                                                                                                      | <div>Empirical Economic Research<br/>5 ECTS</div> <div>Data Driven Decision Making<br/>5 ECTS</div> | <div>Data Privacy &amp; Data Governance<br/>5 ECTS</div> <div>Advanced Multivariate Data Analysis<br/>5 ECTS</div> |                                      | 20 ECTS  |
| Ethics and Compulsary Courses                                            | <div>Ethics and Epistemology<br/>5 ECTS</div>                                                                                                                        | <div>Scientific and Method-oriented working<br/>5 ECTS</div>                                        |                                                                                                                    |                                      | 10 ECTS  |
| Total                                                                    | 30 ECTS                                                                                                                                                              | 30 ECTS                                                                                             | 30 ECTS                                                                                                            | 30 ECTS                              | 120 ECTS |
| <div> <div></div> Compulsory modules <div></div> Elective modules </div> |                                                                                                                                                                      |                                                                                                     |                                                                                                                    |                                      |          |