Academic and Examination Regulations (AER)

Academic year 2026-2027

Research Master Business Data Science



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Section 1 General provisions

Article 1.1 Scope of the regulations

These regulations apply to the Research Master Business Data Science (BDS) with CROHO code 65024, hereinafter referred to as: 'the Program'. The Program is jointly offered by the Economics and Business Departments of Erasmus University Rotterdam, Vrije Universiteit Amsterdam and University of Amsterdam, to be referred to hereafter as: 'the Schools'. The transition regulations for the program and the Study Guide, published on the website of the program, form an integral part of these Academic and Examination Regulations.
These Academic and Examination regulations apply to all students in the program in the academic year 2026/2027, irrespective of when they started the program.

These regulations become effective on September 1, 2026 and remain valid up to and including August 31, 2027.

Thus laid down by order of the Deans of the Schools

Date: August 2026

Article 1.2 Definitions

In these regulations the following terms are understood to mean:

a. The Act: the Dutch Higher Education and Research Act (in Dutch: WHW);
b. The Program: the total and cohesion of the education units, teaching methods, assignments, contact hours, examinations and mandated literature;
c. Student: anyone enrolled in the program and/or taking the examinations and exams for a program;
d. Credit (EC): unit in which the full student workload is expressed, whereby one credit equals 28 hours of study (in accordance with the European Credit Transfer System);
e. Course Guide: an overview published on the website of the Erasmus University Rotterdam of all education units with the associated EC, and short description of the content and required literature of the education unit;
f. Academic year: the period from September 1st – August 31st;
g. Study Guide: the guide for the program that provides further details of the provisions and other information specific to the program. The Study Guide is available electronically at the program's website;
h. Admissions Board: the committee that assesses on behalf of the schools whether a candidate meets the requirements for admission to the program and decides on the scholarships;Examination Board: the Examination Board is responsible for the quality of examinations and diplomas. The Examination Board decides upon student requests regarding exemptions, deviations from the program and decides upon measures in cases of fraud and plagiarism; the Examination Board serves two research master programs: the Research Master Business Data Science and the Tinbergen Institute Research Master in Economics;

i. Educational Board: the Educational Board or Program Committee serves two research master programs: the Research Master Business Data Science and the Tinbergen Institute Research Master in Economics program;
j. Director of Graduate Studies (DGS): the Program Director for the Business Data Science Research Master;
k. Educational Office: back-office offering practical support for the educational program;
l. Curriculum or program structure: an overview of all education units with the associated EC within the program;
m. Education unit: an independent core or field course, seminar or thesis;
n. Core course: a first-year course in one of the (core) course sequences;
o. Field course/elective: specialized course in a research field;
p. Course sequence: a combination of coherent (core) courses focussed on either (advanced) econometrics and (advanced) mathematics, or the machine learning sequence;
q. Track: a specialization within the program;
r. External course: a course not listed as a one of the courses in the curriculum in the Study Guide. Students need explicit permission from the Examination Board to take an external course for EC;
s. Block: 7 weeks of lecture/study time concluded with an examination week;
t. Examination period: the period during which written examinations can be scheduled;
u. Result: assessment of an education unit registered in Osiris. The calculation of the result can be found in the course information through the course guide;
v. Retake: a retake of an exam;
w. Tutorial: weekly lecture, usually taught by a teaching assistant, in which students work on and discuss relevant exercises and homework assignments;
x. Field paper: a paper connected to a field course and supervised by the instructor of the field course;
y. Internship: an unpaid individual research practice internship for credits at one of the schools, supervised by a research fellow;
z. Hackathon: a group of students working together on a business case;
aa. Lecture series: a series of condensed lectures by an external lecturer set up by the program. Students can take a lecture for EC by attending the classes and passing the assessment;
bb. Lecturing term: the part of an education unit during which lectures take place. The lecturing term also includes possible holidays but not the examination period;
cc. Examiner: teacher authorized by the Examination Board to assess an examination, constituent examination or assignment;
dd. Examination: an assessment of the student's knowledge, understanding and skills relating to a course component. An examination may consist of one or more partial examinations, which may include (but is not limited to):
    - a thesis or paper;
    - a presentation;
    - an assignment;
    - an internship;
    - an oral or written test;
ee. Thesis: an individual final written work in the form of a scientific research report on a topic from or related to the student's program;
ff. Final examination: the completion of the master's program, i.e. the thesis;
gg. Grade Point Average (GPA): the average value of the accumulated final grades earned over time, taking into account the number of EC an assessment stands for.

Section 2 Program objectives and intended learning outcomes

Article 2.1 Program objectives and intended learning outcomes

1. The program is a Research Master program and leads to a Master of Science (MSc) degree in business. It has a workload of 120 EC.
2. Admission to the program is highly selective; for admission requirements see Section 3.
3. The program offers a thorough training in advanced methodology, methods and techniques in data science, in combination with an extensive training in one of the chosen fields of expertise.

4. Graduates of the Program should be able to set up and carry out scientific research projects in the chosen field of expertise, with the use of data science techniques, under academic supervision.
5. The program aims to prepare students for PhD research.
6. More detailed Learning Outcomes are listed in the Appendix.

Section 3 Previous education and admission to the program

Article 3.1 Previous education

1. In order to qualify for enrolment in the Program, a Bachelor's degree obtained in academic higher education (university) is required.
2. When the Program commences, the candidate must have fully completed the Bachelor's program.

Article 3.2 Application and selection procedure

1. The main goal of the program is to train students for an academic career starting with a PhD position in our Schools. Because PhD positions are limited, the Program only enrolls a limited number of students.
2. The Admissions Board of the Program is responsible for admission into the Program. Members of the Admissions Board are TI fellows appointed by and representatives of the School where they are employed.
3. In the admission process, the Admissions Board is supported by the Admissions Committee and the DGS. The Admissions Committee consists primarily of TI Fellows representing different academic fields. All eligible applicants are ranked by the Admissions Committee. The rankings and application files are subsequently discussed with the Admissions Board.
4. The assessment of applications is based on academic performance, research potential and intrinsic motivation. These criteria are evaluated based on the complete application file. The Admissions Board gives preference to candidates who demonstrate strong academic performance, clear research potential and the ability to successfully start a PhD program by the end of the Research Master. The Admissions Board aims to admit a cohort of students with diverse research interests, ensuring a strong fit with the relevant academic community at our participating Schools.
5. Candidates must submit applications to the Program through the online application system. In exceptional circumstances, applications can be submitted by other means.
6. The application deadlines are available on the website at the beginning of the annual admissions cycle.
7. The application file contains at least: a transcript of coursework of previous programs, a recent vitae, two recommendation letters and a written statement of purpose. For non-Dutch degree holders a GRE score report or a GMAT test score report, and proof of English language proficiency are required. This requirement is met when the student has passed the TOEFL iBT and/or the IELTS (specifications can be found at the program's admissions webpage). Students with a degree from a university program where the language of instruction was English are exempted. An interview may be part of the selection process.
8. If the information provided by the student is (deliberately) misleading or incorrect, the offer of admission may be withdrawn at any time.
9. Detailed application and selection criteria are published on the website.

Article 3.3 Enrolment

1. Students participating in the Program have their primary enrolment at the secretary of the Program: EUR. They are also enrolled at the UvA and VU.

Section 4 Program structure

Article 4.1 Structure of academic year

1. The Program starts in August with an introduction week for year 1 students.
2. The academic year is divided into 5 blocks. Blocks 1-4 consist of 8 weeks. Block 5 is an extended block with examinations in the last week (usually in July).

3. The Program comprises the units of study, with the stated student workload per track, as stipulated in the Study Guide for that year.

Article 4.2 Language of teaching and examinations

1. The language of instruction and examination is English.

Article 4.3 The Program

1. The Program is a full-time program and cannot be taken as a part-time program.
2. The Program has a duration of two years and has a study load of 120 EC.
3. The total study load consists of 60 EC for year 1 and 60 EC for year 2.
4. Successful completion of the Program leads to the awarding of a Master's degree (MSc).

Article 4.4 Curriculum

1. The Program consists of compulsory components and field courses. Compulsory components and field courses are listed in the Study Guide.
2. The Program offers three tracks: Operation Research Analytics, Quantitative Finance and Management Science

Article 4.5. Requirements of the Program

1. Detailed requirements are stipulated in the Study Guide.
2. The DGS ensures that at the start of the academic year the lecturer(s) responsible has (
3. have) published an overview of the lecture and examination material in the Course Guide. Before the start of the education unit, the lecturer responsible indicates how the material for the education unit has been distributed across the lectures and tests (assignments, partial tests, examinations). This information is shared through Canvas.
4. Unless explicitly stated otherwise (and approved explicitly by the DGS), in-person, physical attendance of all lectures (with the exception of tutorials) is mandatory. Attendance is registered via Canvas or via attendance sheets.
5. Students choose a track before block III of year 1. Detailed requirements for each track, including a restricted list of track-specific courses are determined annually in the Study Guide.
6. In year 1, students complete 11 core courses (4 EC each) and the Parallel Computing course (3 EC). Additionally, students complete a track-specific elective (4 EC) and the Business Foundations course (1 EC).
   To fulfil the remaining 8 EC, depending on their track, students select track-specific electives and/or research internships (4 EC) and/or a hackathon (4 EC). For both internships and the hackathon combined a maximum of 8 EC can contribute to the required 60 EC. Details are specified in the Study Guide. Students are required to complete a compulsory workshop on scientific integrity, for which EC are awarded in the second year.
7. Core courses have weekly tutorials.
8. In core courses, teachers may not assign (graded) homework with a deadline in the week prior to the exam or in the exam week.
9. EC earned in year 1 by taking additional year 1 field courses or core courses that are not part of a student's curriculum will not contribute to the total amount of EC or the GPA for year 1 of the Program but may count for year 2 of the Program.
10. Students need to have passed with a grade 6 or higher at least 48 EC from the year 1 curriculum **and** have completed the Business Foundations course to directly enter the second year of the curriculum. For those who have earned between 40 and 48 EC from the year 1 curriculum, a study plan is developed in collaboration with the DGS. This plan outlines which year 2 courses the student can access and details how they will complete the Program. Students who have achieved less than 40 EC with a grade of 6 or higher from the year 1 curriculum are not eligible to enroll in second-year courses. Additional, specific entrance requirements for each second-year field course will be determined in the relevant course manual.
11. In year 2, before the start of the academic year, students select Field courses/electives amounting to a maximum of 24 EC (including external courses). Changes in the selection of courses afterwards

needs explicit support in writing from the student's (intended) supervisor (in case there is one) and needs the DGS' approval.
12. The requirement for year 2 is that students accumulate a total of 60 EC, consisting of the following components: the course Bayesian Econometrics (3 EC); mandatory track-specific field courses (listed in the Study Guide, 3 EC each), 3 skills workshops (1 EC each), electives (3 EC each, listed in the study Guide) and/or internships (up to two internships, 3 EC each), and a thesis (30 EC).
13. Students can take advanced Core courses as Field courses provided that they did not take that course in the first year and meet the entrance requirements for that particular Core course.
14. The maximum amount of EC obtained in the TI lecture series that may contribute to the 24 EC Field course requirement is 6.
15. The maximum amount of EC obtained through I Internships that may contribute to the 24 EC Field course requirement in year 2 is 6.
16. Subject to approval by the Examination Board, students can take external courses for EC for up to 9 EC for year 2.
17. 3 EC are allocated to external courses taken as a Field course, irrespective of the number of EC allocated to the same course elsewhere. This also applies to a first-year advanced core course taken as Field course. The Examination Board can deviate from the number of allocated EC.
18. After explicit approval of the DGS, students can replace one of the non-mandatory electives for a research paper assignment (3 EC) supervised by a faculty member.
19. The Thesis will be presented in a public pre-defense before a committee of experts. The pre-defense can only take place with the approval of the supervisor and if the student has earned the EC for all other study units of the curriculum of year one and two, with the exception of EC for a TI or BDS lecture and/or the Skills workshops. Details on the Thesis process and grading of the thesis are described in the Thesis manual and on Canvas.

Section 5 Assessments and Examinations

Article 5.1 Signing up for units and examinations

1. Students must be signed up for units of study before the start of the block.
2. Students who signed up for the unit of study are also signed up for the examination of that unit, including partial examinations.
3. Participation of students not enrolled in the Program is decided upon by the DGS.

Article 5.2 Examination schedule

1. Examinations and final deadlines are scheduled in the examination period, usually the last week of the block.
2. All student tasks and duties related to a course have to be scheduled and completed within the block in which the course is taught. Exceptions must be approved by the DGS.

Article 5.3 Types of examinations

1. The Course Guide stipulates the way in which a unit of study is concluded and the form of examination. The composition and weight of all composing elements are subject to approval by the DGS.
2. The Examination Board needs to approve any changes to the form of examination after publication in the Course Guide.
3. At least 50% of the final grade for a unit of study should be based on individual assessments.
4. A sit-in closed book examination cannot be the main component of the final grade of a Field course, as the examination of the Field courses should be in line with the research nature of the course.
5. Examinations are assessed based on criteria that have been published in advance.
6. Take-home assignments should be aligned with the AI-guidelines specified for the course.
7. An oral examination will be taken in the presence of a second person, familiar with the course content and preferably a lecturer at TI. The organization of the oral exam needs approval from the DGS.

Article 5.4 Opportunities to sit examinations

1. For every unit of study there is one opportunity each academic year to take the final and partial examinations, all within the relevant block.

2. Failed core and mandatory year 1 units of study must be retaken in the next academic year, unless the result can be compensated under article 5.8.
3. For missed final exams due to illness or any other reason beyond control, the student may apply to the Examination Board for an opportunity to take the exam as soon as reasonably possible. This does not count as a 'resit'.
4. Failed Field courses must be replaced by a different Field course.
5. For failed mandatory year 2 courses and failed resits of mandatory year 1 courses, the student may apply to the Examination Board for a resit.
6. Students may not retake an examination, if the credits for the course have already been obtained, including through compensation.
7. A resit granted by the Examination Board must follow the format of the original examination, and must be scheduled at least two weeks in advance with the approval of the DGS.
8. When granting a resit, the Examination Board may add specific conditions for grading.

Article 5.5 Determining and announcing results

1. The examiner determines the result of all written examinations within fifteen working days.
2. The examiner determines the result of an oral examination as soon as the examinations has finished for all students.
3. The examiner ensures that the student is notified of the grade, taking into account the applicable confidentiality standards. Failure to comply with the deadline for grading may result in a deduction of €2,500 of the teaching compensation.
4. The Education Office makes sure all final results are registered in Osiris.

Article 5.6 Grading

1. All courses are graded on a 1-10 scale, where 1 indicates very poor performance, 6 is the lowest passing grade, and 10 refers to outstanding performance.
2. The final grade for a course is rounded to the nearest multiple of .0 or .5, with the following exceptions: any grade between 5.0 and 5.5, 5.5 excluded, is rounded to a 5; any grade between 5.5 and 6 is rounded to a 6, a grade lower than 1 is rounded to a 1.
3. Partial grades are not rounded before computing a student's final grade.
4. For Core courses, the homework assignments are only taken into account when determining the final grade, if the student received at least a 5.0 for the final examination.
5. In case more than one lecturer is involved the coordinator of the course is responsible for consistent grading across all parts of the course.

Article 5.7 Right of inspection

1. The student can, on request, inspect their assessed work in combination with the questions and assignments set, as well as the standards applied for grading within 28 days of the announcement of the results of a written examination.
2. Inspection of the assessed work can only take place while the student is supervised by the examiner or an employee of the Education Office.
3. If a student wants to contest their results, they must do so themselves.
4. Students may not take pictures of (part of) the exam.

Article 5.8 Terms of Validity

1. Course results remain valid indefinitely.
2. Contrary to the provisions of Article 5.8.1, the Examination Board can decide that a course result is no longer valid if the student's skills and knowledge are demonstrably outdated. The Examination Board may then decide to require a student to take a supplementary or substitute examination before allowing that student to progress to the final exam.
3. Partial examinations and assignments passed within a unit of study that have not been successfully completed can, with approval of the lecturer, be carried over to the next academic year. The Examination Board can extend the limited validity period of a partial result on the basis of hardship if a student submits a motivated request.

Article 5.9 Compensation Rule

1. A compensation rule is available to students who have passed within the first year of enrolment at least 48 year 1 EC with a grade 6.0 or higher **and** who have completed the 'Introduction to TI Research groups' within the first year of enrolment.
2. The compensation rule allows eligible students to compensate at most one 5 in the Core course sequence A with a 7.5 or higher obtained within the same Core course sequence, and at most one 5 in the Core course sequence B with a 7.5 or higher obtained within the same core course sequence. The compensation rule applies across years.
   Core Course sequence A contains: (Advanced) Mathematics/(Asymptotic) Statistics//(Advanced) Econometrics I-III;
   Core Course sequence B contains: (Advanced) Machine Learning I/Machine Learning II /Reinforcement Learning/Deep Learning/Natural Language Processing/Simulation Analysis & Optimization.
3. Any compensated grade counts as a five (5) in the computation of the student's GPA.

Article 5.10 Exemptions

1. The student may request from the Examination Board an exemption from a course if the student has completed an equivalent course regarding contents, level and the amount of EC devoted to the subject. The course must be a master course and the student must have obtained at least a grade 8 (or equivalent) for this course. An exemption can relate only to a whole course in the curriculum and not to a part of it.

Article 5.11 Final examination and diploma

1. The Examination Board determines whether the student has passed all the requirements of the program.
2. The Examination Board grants a diploma as proof that the student has passed their final examination. The Examination Board adds a diploma supplement to the diploma providing information on the nature and content of the program.
3. A GPA of 8 or higher in all examinations on the first attempt, without a compensated grade 5 and without a failed field course exam, within 24 months after the start of the program, entitles the student to the distinction of 'cum laude'.
4. Degree and diploma are issued by the three participating universities as a joint degree.
5. Individuals who have successfully completed one or more components of the program will, on request, receive a statement stating the course(s) that have been completed together with the number of EC.

Section 6 Misconduct and Fraud

Article 6.1 Definitions and prohibitions

1. Misconduct is understood to mean inacceptable or disruptive behaviour from students in disregard of the Academic and Examination Regulations, the Examination Board rules and conduct rules from our Schools.
2. Fraud is understood to mean: any act(s) or omission(s) by/from a student that as a result of which it is or has become reasonably impossible for the examiner and the Examination Board to make a proper assessment of the knowledge, understanding and skills acquired by the student or of the knowledge, understanding and skills of fellow students.
3. Students should immediately report a possible appearance of fraud concerning themselves during an examination to the invigilator/examiner.
4. The following (not limited) will be deemed to be fraud:
   a. Being in possession of tools or resources (pre-programmed calculator, mobile phone, books, syllabi, notes, etc.) which are not explicitly permitted during the examination;
   b. Copying from or exchanging information with another student during the examination;
   c. Assuming someone else's identity during the examination;
   d. Allowing someone else to assume your identity during the examination;
   e. Obtaining the examination questions before the date or time when the examination is scheduled to take place;

f. Changing, extending or amending a section of the examination after it has been submitted for a final assessment.
g. Handing in a (group) assignment, paper, thesis, or any other form of text that was assessed within a previous course of the current Program or a previous Program, as work for a current course.
h. To commit plagiarism (see article 6.5 and 6.6)

5. The term 'Plagiarism' is understood to mean copying information without giving credit, .
6. The following among others will in any case be considered as /plagiarism:
   a) Using or copying other people's texts, data or ideas without a complete and correct source reference;
   b) Not indicating clearly in the text, for example through the use of quotation marks or a particular layout, that text is being cited directly from another author, even where correct referencing has been included;
   c) Submitting paraphrased content of other people's texts without sufficient referencing of sources;
   d) Submitting texts that have previously been submitted for earlier assignments, or comparable texts, for separate examination components, without proper references;
   e) Submitting work that has been written by someone else, whether or not in exchange for payment, or by AI and presenting this as their own;
   f) Submitting copied work from other students and presenting this work as their own;
   g) Submitting copied content, including source codes, that was created by using generative AI tools and presenting this work as their own work. Explicitly excluded from plagiarism is using AI tools for checking grammar, improving writing style and/or translation;
   h) Submitting reused source codes authored by someone else and failing to properly reference this. The use of (slightly modified) simple code lines from programming manuals or textbooks as a (minor) part of an assignment is normally regarded as fair use and requires no acknowledgement.

Article 6.2 Procedure

1) Misconduct and/or fraud during a written examination identified or suspected by the invigilator will be reported to the Examination Board in writing directly after the examination.
2) Misconduct and/or fraud identified or suspected by the examiner or lecturer will be investigated, and, if found credible, reported to the Examination Board and the concerned student in writing.
3) The Examination Board will invite the student to present their case and will determine whether misconduct and/or fraud has been committed based on the evidence and the information provided by the invigilator and/or the examiner, and the student.
4) In order to assess the possibility of fraud, the following actions may be taken by the lecturer/examiner, taking into account the severity of the suspicion:
   a) The use of electronic detection software programs. In submitting a text, the student implicitly consents to the text being entered in the database of the detection program concerned;
   b) The student may be required to answer questions orally in a short time-frame
   c) The student may be required to write a substitute version of the examination or assignment in a limited time, under controlled conditions.
5) The Examination Board is authorized to conduct additional substantive assessments of the student's knowledge and skills in cases of (suspected) fraud, plagiarism, repeated irregularities, or other violations of the rules.

Article 6.3 Measures

1. If the Examination Board is convinced that fraud has been committed, a sanction will be imposed taking into account the principles of legal fairness and proportionality.
   Sanctions might be, but are not limited to:
   a) Declaring the examination to be invalid;
   b) Grading the examination with a 1;
   b) Excluding the student from access to courses and examinations, and supervision for a maximum period of one year;
   c) Suggesting permanent termination of the enrolment of the student to the board.

2. If the fraud pertains to a group work/assignment, it will be attributed to each of the group members equally. The burden of proving the contrary rests on every group member.
3. The student can lodge an appeal against the decision by the Examination Board to the Board of Appeals for Examinations of Erasmus University (see below).

Section 7 Evaluation of education

Article 7.1 Evaluations

1. The DGS is responsible for ensuring the evaluation of the education.
2. After the teaching period and after the examination, students are asked to complete questionnaires on the courses and examinations taken during that period.
3. The DGS informs both the Educational and the Examination Board of the evaluation outcomes and the amendments made as a result of this.
4. The members of both the Educational and the Examination Board will handle information regarding performance of individual lecturers confidentially.

Section 8 Counselling and adaptations

Article 8.1 Counselling availabilities

1. The DGS provides academic counselling for students enrolled in the Program.
2. Study advisors and student well-being facilities are available at the Schools.

Article 8.2 Adaptations

1. A student with an impairment can submit a written request to the Examination Board to qualify for special adaptations with regard to teaching and practical training. These adaptations will accommodate the student's individual impairment as much as possible, but may not alter the quality or degree of difficulty of a course or an examination. In all cases, the student must fulfil the exit qualifications for the Program.
2. The request referred to in the first paragraph must be based on a recent statement from a physician or psychologist. In the case of dyslexia, a statement from a BIG, NIP or NVO accredited testing centre will suffice. Where possible, the statement should include an estimation of the extent to which progress of study will be hindered.
3. The Examination Board decides on the adaptations concerning the teaching facilities and logistics, and will rule on requests for adaptations with regard to examinations.
4. A request for adaptations will be refused if it would place a disproportionate burden on the organisation or the resources of the institute.

Section 9 Right of appeal

Article 9.1 Right of appeal

1. An appeal may be lodged against the way in which the result for an examination was reached, against an Examination Board decision or against a decision regarding admission to the program. A detailed notice of appeal should be submitted to the Board of Appeals for Examinations (CBE) of Erasmus University within six weeks of the announcement of the result or decision. The procedures of the CBE must be followed.

Section 10 Hardship clause

Article 10.1 Hardship clause

1. In exceptional cases, the Examination Board may deviate from these Academic and Examination Regulations in the student's favour.

Appendix to AER 2026-2027 research master Business Data Science

Intended learning outcomes for the research master Business Data Science

The general objective of the master program is to prepare talented and motivated students to entering PhD degree programmes and other research positions in the field of business data science. The program offers a thorough training in advanced methodology, methods and techniques in data science, combined with an extensive training in one of the chosen fields of expertise within the broader field of business and management. Graduates of the program should be able to independently set up and carry out scientific research projects in one of the fields in business and management, with the use of data science techniques. In cooperation with senior faculty, graduating students should be able to write a research thesis that is potentially publishable in one of the international refereed journals in the field.

More specifically, students who successfully complete the research master Business Data Science should:

Knowledge and understanding

I. have advanced knowledge and broad understanding of data science research methodology and its applications in business and management; this covers methods in statistics, econometrics, machine learning, and management science;
II. have advanced knowledge and understanding of key research areas in business data science, for example in entrepreneurship, finance, human resources, marketing, and operations research;

Application of knowledge and understanding

III. be able to define research questions in business and management and answer these questions by specifying relevant theories, collecting relevant data, and applying advanced data science methods;
IV. be able to apply/develop new data science approaches in order to solve relevant research questions in business and management;
V. be able to design and specify models that tackle managerially-relevant research questions;
VI. be able to design and implement approaches to validate model specifications and algorithms (e.g., formal proofs, analytical demonstrations, or empirical proof-of-concept in field or lab settings) in line with academic standards;

Making judgement

VII. can critically evaluate research outcomes, and reflect on the ethical and social implications of the outcome of their analysis;

Communication

VIII. be able to write research papers that are well structured, reflecting academic editorial standards;
IX. be able to present and defend their research to an audience of academic researchers;

Learning skills

X. to contribute original research to this field, under academic supervision;
XI. respect and practice all current standard principles of scientific integrity, ethics, responsible data management and privacy;
XII. have developed an attitude to independently keep track of the developments in one field of specialization and to embark on independent research in this field;
XIII. work well in a team and reflect on own role and contribution within teams.