

Radboud Universiteit



Bachelor

Artificial Intelligence

Faculty of Social Sciences

Education and Examination Regulations 2023-2024

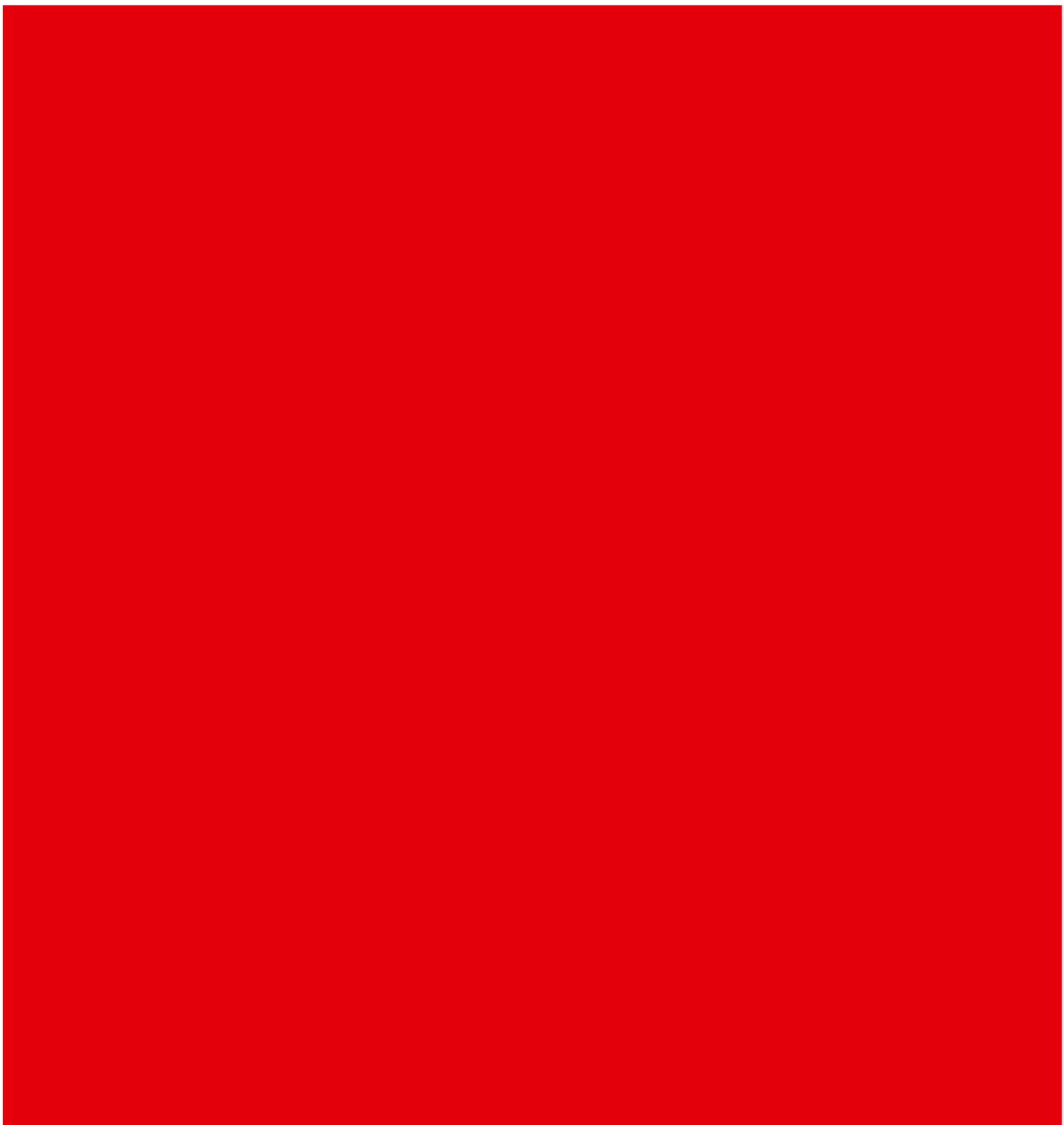


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Part 1 General Provisions

Paragraph 1 General provisions

Article 1.1 Aim and Applicability

1. These Education and Examination Regulations (EER) (hereinafter, regulations) apply to the Bachelor's degree programme, **Artificial Intelligence**, number **CROHO 56945** (hereinafter, the programme), The programme is set up by the Executive Board of Radboud University (hereinafter RU) and is offered by the Faculty of Social Sciences (hereinafter, the faculty). Part 2 of these regulations lists the provisions applicable to all Bachelor's degree programmes of the faculty. Part 3 specifies the additional provisions applicable to this particular programme.
2. The present regulations apply to all students enrolled in the programme in 2023-2024.
3. In order to prevent students from being put at a disadvantage due to changes to these regulations, a programme can decide to instate suitable, transitional regulations. These transitional regulations describe the students for whom they are intended. Transitional regulations apply for one academic year. If no transitional regulations are instated or transitional regulations are terminated, students are able to apply the hardship clause (Article 11.1).

Article 1.2 Guidelines Executive Board

1. With a view to the organization and coordination of the provisions in these regulations, the executive board has adopted the following guidelines:
 - a. [Guidelines Distinctions Regulation](#)
 - b. Regulations First Year Study Recommendation (appendix 4 of this EER)
2. The provisions in these education and examination regulations apply respecting the provisions of the guidelines referred to in paragraph 1 of the present article.

Article 1.3 Definitions

1. The terms used in these regulations, which are also used in the Higher Education and Research Act (Wet op het Hoger onderwijs en Wetenschappelijk Onderzoek) (hereinafter, the Act) will have the same meaning as these terms have in the Act.
2. Apart from the terms referred to in paragraph 1, is understood by;
 - contact hour: an education hour in which the lecturer is either physically or virtually present, where face-to-face or virtual interaction is possible;
 - EC (European Credit): the course load entity in accordance with the European Credit Transfer System (ECTS), in which 1 EC is equivalent to 28 hours of study;
 - examination: the entirety of interim examinations, resulting in a Bachelor's degree certificate;
 - examiner: a person appointed by the Examination Board to administer examinations and determine the results;
 - extracurricular unit of study: component to be determined by the student, which is not part of the curriculum;
 - final assignments: final assignments for the programme, also known as the thesis and – if applicable – the final internship;
 - fraud: any act or omission by a student which, in its nature, is intended to have as an effect that proper assessment of the knowledge, understanding and skills of that student or another student, is made fully or partially impossible (Appendix 1);
 - free elective unit of study: component entirely to be determined by the student, which is part of the free elective room of the curriculum;
 - interim examination: umbrella term for all common assessment methods, as referred to in article 7.10 paragraph 1 of the Act and as described in article 4.1.1.;
 - interim examination date: the date on which the interim examination is administered by or on behalf of the

examiner;

- module examination: an examination with respect to the knowledge, understanding and the skills of the examinee, as well as the assessment of the outcomes of that examination, which in coherence with one or more other examinations referred to here, constitute the interim examination as referred to in article 7.10 paragraph 1 of the Act;
 - pre-master: a programme as referred to in article 7.30e of the Act to support students who do not meet the admission requirements of the master's programme;
 - prospective student: a student who has registered in Studielink, but has not yet enrolled;
 - resit: the resit of an examination as referred to in article 7.10 paragraph 1 of the Act. Where these regulations refer to interim examination, this term also includes resits, unless stipulated otherwise;
 - unit of study: part of the degree programme (component) as referred to in article 7.3 of the Act;
 - working day: Monday to Friday, with the exception of public holidays as specified in the CAO for Dutch Universities *and* the collective free days designated by the Executive Board;
 - education week: week in which education is provided, as laid down in the Radboud University's annual timetable.
3. Where these regulations refer to 'the student', the prospective student is included, wherever relevant.

Part 2 General Part

Paragraph 2 Admission to the programme and education

Article 2.1 Decisions on admission to the programme

The executive board registers the student who meets the admission requirements and procedures set for registration at Radboud University, as referred to and described in chapter IV, V and VI of the [Registration Regulations of Radboud University](#).

Article 2.2 Admission to teaching and examinations

1. Decisions on admission to the programme are taken, on behalf of the dean, by the Admission Board.
2. Contrary to the provision in the previous paragraph, the Head of the Admissions Office decides, on behalf of the Executive Board, on the student's admission to the Bachelor's programmes taught in the Dutch language if this student does not have a diploma that has been awarded in the Netherlands.

Article 2.3 Admission requirements and procedures

1. Students who are enrolled in the programme may attend all units of study in that programme and may sit the corresponding interim examinations.
2. In derogation of the provision in paragraph 1 specific (non-) content related admission requirements may be requested for a unit of study. If so, these requirements are laid down in article 8.3 of the programme specific part of these regulations.
3. In special circumstances, the Examination Board may exempt the student from the entry requirements, with or without imposing alternative requirements.
4. Registration for tuition and examinations is not made dependent on other financial contributions than tuition fees, unless costs should be involved, to be determined by the dean in a separate decision, in relation to participation in any practical exercises, educational excursions or workshops in the degree programme that follow from the special nature of the degree programme. If any costs referred to in this paragraph should be involved, these costs are listed in the course guide. The dean offers an alternative, free of charge, unless the educational facility cannot be replaced.

Paragraph 3 Structure of the programme

Article 3.1 Programme type

The programme is only offered full time. The programme's form is determined by the executive board, in a separate decision.

Article 3.2 Programme study load

The programme has a study load of 180 EC. The programme's study load is determined by the executive board, in a separate decision.

Article 3.3 Bachelor's final examination, degree and distinction

1. The programme is concluded by the Bachelor's final examination.
2. The student who has passed the final examination of the Bachelor's degree programme will be awarded the Bachelor of Science (BSc) degree.
3. The Examination Board may award a distinction to a student who has successfully passed the Bachelor's final examination. The rules for awarding a distinction have been laid down in a [Guideline for Distinctions](#).

Article 3.4 Learning outcomes and curriculum

1. The programme comprises the total of the units of study as described in article 9.3. 9.4 and 9.5 of the programme-specific part of these regulations and is aimed at the realisation of well-defined objectives in the areas of the knowledge, understanding and skills that those completing the course are deemed to possess.
2. The learning outcomes of the programme are laid down in article 9.1 of the programme-specific part of these regulations
3. In the context of the programme the student is required to write a final paper as an individual proof of competence. The Examination Board can decide this requirement is to be replaced by participation in a research project or by an internship that is subject to an individual report in accordance with applicable academic standards.
4. The programme allows for units of study of a philosophical nature, in total amounting to at least 6 EC.

Article 3.5 Incorporating electives

1. The programme allows for the incorporation of completely free elective units of study of at least 15 and maximum 30 EC. Free electives can be taken at the RU, Dutch universities and abroad.
2. No permission of the Examination Board is needed for the incorporation of free electives at the Radboud University, Dutch and partner universities abroad. For incorporation of free electives offered by other educational institutes, permission is needed.
3. In the event that workload and study results of the units of study to be incorporated differ from those provided for in these regulations, conversion will take place with due observance of the Radboud University memo '[Conversion of workload and study results](#)' (Conversie van studiebelasting en studieresultaten).
4. It is not permitted to let the same unit of study be part of the compulsory curriculum of both the Bachelor's and Master's final examination.
5. For well-founded reasons the dean may permit a programme to deviate from paragraph 1 of this article.
6. Incorporation of units of study from other degree programmes as free electives takes place in accordance with the relevant rules with respect to procedures and rights and obligations as referred to in article 7.13, paragraph 2 of the Act, in so far as these procedures relate to that unit of study.
7. Electives obtained during the period of registration in the programme will be shown with a grade on the diploma.

Article 3.6 Adding units of study (extracurricular)

1. Adding elective units of study obtained during registration of the programme, outside the programme is permitted.
2. No permission of the Examination Board is needed for adding units of study at the Radboud University, Dutch and partner universities abroad. However, permission is required for the incorporation of extra-curricular components from institutions other than those mentioned in this paragraph.
3. In the event that workload and study results of the units of study to be added differ from those provided for in these regulations, conversion will take place. The Examination Board will decide on the conversion, with due observance of the Radboud University memo '[Conversion of workload and study results](#)' (Conversie van studiebelasting en studieresultaten).
4. Added units of study will be listed on the diploma.

Article 3.7 Exemptions

1. Granting exemptions from units of study is permitted, unless provided otherwise in the programme-specific part of these regulations
2. At the request of a student and having heard the examiner involved, the Examination Board may exempt the student from a unit of study, if this student;
 - a. has either completed a relevant unit of study of a university or higher professional programme that is similar both regarding contents and level or;

b. demonstrates - after successfully passing an assessment as requested by the examiner - having adequate knowledge and skills regarding the unit of study in question as a result of relevant work experience or professional experience.

3. For units of study in the first period of the first year exemptions may be granted up to two weeks after the start of the unit of study. Exemptions for all other units of study must be granted before the start of the course.
4. The percentage of exemptions will never be more than 50 percent of the programme's credits.
5. No exemption as referred to in paragraph 1 will be granted for the final assignment.
6. The Examination Board does not grant exemptions on the basis of results obtained in the period in which the student was banned from sitting interim examinations as referred to in the Regulations on fraud Radboud University (Appendix 1).

Article 3.8 Elective Programme

1. The programme's Examination Board decides on a request for permission to attend an elective programme as intended in article 7.3j of the Act. The Examination Board will verify whether the programme fits within the degree programme's domain for which the Examination Board is accountable, if it is sufficiently coherent and if the level is adequate in the context of the programme's learning outcomes.
2. The request in question will have to be submitted at least two months prior to the start of the programme.

Article 3.9 Teaching periods and interim examinations

1. The programme will be offered in an annual schedule consisting of two semesters, set by the Executive Board.
2. A semester is divided in two periods.
3. At the end of each period interim examinations are scheduled.
4. The programme-specific part at least arranges in which semester the opportunity is provided to attend courses and to sit the interim examinations of the units of study.

Article 3.10 Contact hours

In the first and second year the average number of contact hours is at least 15 hours per teaching week.

Article 3.11 Language

Article 9.2 of the programme-specific part of these regulations stipulates the language/languages in which the units of study are taught.

Article 3.12 Participation in education

1. Participation in education is optional, unless this has been otherwise specified in the course manual of the relevant unit of study;
2. The exact specifications of the participation requirement and any sanctions related to not satisfying this requirement must also be indicated in the course manual of the relevant unit of study.

Article 3.13 Language proficiency test

Radboud Academic Diagnostic Assessment Dutch/English:

1. all students in the first year of a Dutch-taught (specialisation of a) Bachelor's programme are to sit the Academic Diagnostic Assessment for the Dutch language (RADAr-NL).
2. all students in the first year of an English-taught (specialisation of a) Bachelor's programme are to sit the Academic Diagnostic Assessment for the English language (RADAr-EN).
3. the test is aimed at gauging the level of proficiency in academic language use and assesses the following aspects: writing skills (grammar, vocabulary, spelling, and punctuation), listening skills (listening, listening comprehension, and summarising skills), and reading skills (vocabulary, logic, argumentation, recognising textual relations and logical fallacies).

4. starting in the academic year 2022-2023, the Radboud Academic Diagnostic Assessment (RADAr) is implemented as a 0 EC-course in the study programme of the first year.
5. exemption for the Academic Diagnostic Assessment (RADAr) can only be granted based on an equivalent university language exam.

Paragraph 4 Examinations

More detailed provisions regarding the assessment of the units of study are outlined in [the Rules and Regulations of the Examination Board](#).

Article 4.1 Structure and requirements of the interim examinations

1. Each unit of study of the programme will be completed by an interim examination. Interim examinations may comprise more than one module examination. For example, written or oral examinations and can be taken either physically or digitally. Apart from written or oral examinations, tests with multiple choice and/or open questions, papers, theses, assignments, take-home examinations, reports, presentations or a combination of any of these is possible.
2. In addition to the provisions set forth in paragraph 1 for units of study that also comprise a practical and/or work group, attendance levels and the degree of active participation may be included in final grading.
3. In principle, oral interim examinations are administered in public and these examinations consist of an individual test in which, normally no more than one person is tested at the same time.
4. Oral interim examinations are administered in the presence of at least a second examiner or an observer appointed by the Examination Board. Otherwise the interim examination is to be recorded. In the case that a presentation counts for 40% or more of the final grade, the same rules apply. This provision does not refer to practical assignments.
5. At the request of the student, The Examination Board may, on behalf of the dean, decide that students with an impairment, by way of special examination facilities, sit the interim examinations in a form adapted to that impairment. Prior to making a decision on this matter, the Examination Board may seek expert advice. In so far as facilities in the context of a 'digital test' are concerned, the Examination Board, when formatting the facility, may seek advice from the faculty's digital testing coordinator.
6. Prior to the commencement of an academic year information will be provided in the course guide for each individual unit of study on the way in which the interim examinations will be administered.
7. Representative sample questions will be made available to the students at least one week prior to the examination. The student is given the opportunity to check their answers to the sample examination (e.g. via a question & answer lecture or answer model). The sample questions are representative of the format and content of the upcoming interim examination. More sample questions will be available for interim exams with a substantial amount of content. For all students assessment criteria have to be available for final assignments, theses, assignments, reports and presentations. Assessment criteria should be made available when the instructions for the final assignments, theses, assignments, reports or presentations are issued.
8. The course manual must be published at least one week in advance of the start of the course in the online learning environment. The course manual includes materials for the interim examination preparation, compulsory literature, a table outlining the workload for students, examination methods and weighting of various interim examination parts in the determination of the final grade.
9. Interim examination dates must be announced no later than one month before the start of a semester.
10. If a unit of study starts on the first day of an academic period set by the Executive Board, no requirements may be imposed on students regarding literature having been studied or assignments having been completed for that unit of study on that day. Necessary preparatory actions - such as reading course manuals or looking for an internship - are permitted.
11. If there are legitimate grounds for it, the Examination Board may decide in special cases to use an assessment method

other than that which is specified in the course manual.

Article 4.2 Rules when administering interim examinations

For the proper course of events during examinations that are administered in Examination Rooms, the dean has adopted the Regulation on House rules Examinations Rooms Radboud University in a separate decision. In order to provide the student with proper and clear information these rules have been attached to these regulations as Appendix 2.

Article 4.3 Frequency of interim examinations

The interim examinations are offered in the programme's language of instruction, unless provided otherwise in the programme specific part of these regulations.

1. For each unit of study opportunity is given for one interim examination and one resit each academic year, on the dates set by the programme director unless provided otherwise in the programme-specific part of these regulations.
2. If the examination referred to in paragraph 1 consists of module tests, the resit also consists of module tests, unless stated otherwise in the programme specific part.
3. Contrary to the stipulation in paragraph 1, there will be only one opportunity to take an interim examination for a unit of study that was not taught in that particular academic year. The Examination Board may decide otherwise.

Article 4.4 Language of the interim examinations

The examinations for the units of study are given in the language of instruction of the programme, unless otherwise specified in the programme-specific section.

Article 4.5 Registration and application for interim examinations

1. Students register through OSIRIS for a unit of study of the programme.
2. If students are registered for a unit of study, they are also registered for the first interim examination in the corresponding academic year.
3. If students should not want to sit the interim examination, they will have to deregister through OSIRIS. If the student wants to deregister after five working days before the interim examination, the student has to deregister via STIP.

Article 4.6 Resit of interim examinations

1. Interim examinations may be resitted once within the same academic year, even when the result is a pass.
2. In derogation of the provision in paragraph 1 of this article, a paper (report, essay, assignment) that receives a passing grade cannot be resubmitted unless otherwise indicated in the course manual.
3. If a student wants to participate in an interim examination they have to register through OSIRIS.
4. Registering for a resit is possible until 11.59 pm on the day before a period of five working days preceding the date of the resit meaning there must always be five full working days between the registration deadline for a particular resit and the date of that resit. The day on which the resit takes place is never included in this period of five working days. After this date registration no longer is possible unless the Examination Board in special cases decides otherwise.
5. If a student resits an interim examination, in all cases the most recent grade will determine the final result.
6. The course manual contains provisions on retaking module examinations.
7. If a student does not pass the interim examination within one academic year the student must resit the entire unit of study a following academic year, unless the examiner decides otherwise.

Article 4.7 Determination of results

1. The final grade of a unit of study will be rounded to the nearest whole and half grade points, as follows: 1; 1.5; 2; 2.5; 3; 3.5; 4; 4.5; 5; 6; 6.5; 7; 7.5; 8; 8.5; 9; 9.5; 10 unless the grade is not expressed as a number, see 4.8.
2. As determined in paragraph 1, the results of a unit of study cannot be set at 5.5. For arithmetical scores between 5 and

6, a score lower than 5.50 will be rounded to 5 and a score equal to or higher than 5.50 will be rounded to 6. The degree programme's course manual contains provisions on rounding scores of module examinations for the different units of study.

3. If the result of a unit of study equals or is greater than 6.0 points, the interim examination is passed; If the result of the unit of study equals or is less than 5.0 points, the student has failed the unit of study.

Article 4.8 Alphanumeric results

Without prejudice to the provisions of article 4.7, the following alphanumeric results are established and registered in Osiris in the following cases:

- a. 'V' (pass, voldaan), if the student has met the requirements for completing the unit of study;
- b. 'NVD' (not fulfilled, niet voldaan), if the student does not meet the requirements for completing the unit of study (for example: this is the case when a student has not participated in a compulsory educational activity);
- b. 'VR' (exemption, vrijstelling), if the Examination Board has granted an exemption, with due consideration for the provisions in these regulations, for a unit of study of the examination programme;
- c. 'VLD' (sufficient, voldoende), if the student passed the unit of study;
- d. 'ONV' (fail, onvoldoende), if the student has failed the unit of study;
- e. 'FR' (fraud, fraude): if the Examination Board has established that fraud was committed when the interim examination was administered and the Examination Board has declared the result of the interim examination in question invalid, with due consideration of the provisions of the Regulations on Fraud attached to these regulations as Appendix 1.

Article 4.9 Publication of results

1. The examiner will determine the results of an examination and takes care of registration in OSIRIS.
2. a. In case of an oral interim examination, the examiner will determine the result immediately or within five days after the interim examination was administered.
b. In case of written or digital interim examinations, the grading period is no longer than fifteen working days after the day the interim examination was administered. This also applies to written and digital module examinations and to assignments/papers. If there are more than one hundred participants, a grading period of twenty working days applies to assignments/papers and examinations containing open questions.
3. By way of exception the Examination Board may - in consultation with the examiner - extend the period referred to in paragraph 2 or reduce this period. Students must be informed before the expiry of the deadline.
4. The grading period is mentioned on the examination form or the digital learning environment.
5. A minimum period of ten working days must be maintained between the date of the announcement of the result and the date of the resit, except for units of study in the fourth period with both the interim examination and the resit in the same period, where this minimum period is five working days.
6. In derogation of paragraph 5, for module examinations the period between the announcement of the result and the date of the resit may be shorter than ten working days.
7. When the results are published, the student will be informed about the right to inspect their marked work as referred to in article 4.8 and about the possibility of appealing at the Examinations Appeals Board.
8. During completion of the programme's final project an independent second reader will be consulted as well as a thesis supervisor.
9. In the case of suspected fraud or plagiarism, the provisions contained in the Regulations on fraud during interim examinations and examinations must be followed (appendix 1).

Article 4.10 The right to inspect the interim examinations

1. Within a period of a maximum of twenty working days following the publication of the results of an interim examination, module examination or resit in all cases the student has the right to inspect the questions and the work marked, as well as receive an explanation of the formal assessment criteria.
2. If deemed necessary, the Examination Board can, after consultation with the examiner, extend or shorten the period of twenty working days as mentioned in paragraph 1 of this article.
3. The inspection will take place under supervision of at least an examiner and/or another person with substantive knowledge regarding the course.
4. The examiner may decide that inspection will take place for all students at the same time, on a date and at a time and place set prior to the start of the unit of study.
5. Time, date and - preferably - place of the inspection will be announced at least five working days in advance.
6. If a student is unable to attend the inspection due to demonstrable circumstances beyond their control a separate inspection can be arranged upon his or her request, preferably within the period of time referred to in paragraph 1.
7. In all events, inspection will take place no later than five working days before the resit of the interim examination in question is administered.
8. The provision in paragraph 7 does not apply to units of study in the fourth period with both the interim examination and the resit in the same period, where this minimum period is two working days.
9. If there is an assessment method that cannot be inspected and reviewed in accordance with the procedure described in paragraph 1, the course manual will describe how it can be inspected in that instance.

Article 4.11 Validity term of examinations

1. The validity term of any interim examination that has been passed is indefinite, unless provided otherwise in the programme-specific part of these regulations, with due observance of the stipulations on this matter laid down in the Act.
2. In case of a restricted validity term, the Examination Board, in special circumstances and in individual cases, may extend the validity term. In the event a student has been granted financial support under the Profiling Fund, as referred to in the Act, because of an impairment or chronic illness, the Examination Board extends the period, at any time, at least by the number of months that the financial support has been granted by the Executive Board.
3. The student is notified, at least 16 weeks prior, of the expiry of the validity term applicable for an examination that was passed. This notification, by or on behalf of the dean, states that the relevant knowledge, understanding and/or skills are outdated and explains the reasons why.
4. The provisions in paragraph 1 of the present article do not apply to module examinations. The validity term of module examinations is always limited to the end of the relevant unit of study, unless stated otherwise in the course manual.

Article 4.12 Determination of final Bachelor's examination results

1. When students have completed all interim examinations successfully, they must apply for the final Bachelor's examination themselves.
2. The Examination Board will determine the results of the examination as soon as the student has passed the interim examinations forming part of the units of study of the programme in question and has submitted proof thereof. The examination date is the date of the last interim examination successfully completed.
3. Prior to determining the results of the final Bachelor's examination, the Examination Board itself may conduct an inquiry into the student's knowledge with respect to one or more units of study or aspects of the degree programme. If this is the case, this will be elaborated upon in the programme-specific part of these regulations.

Paragraph 5 Study progress, student counselling and course advice

Article 5.1 Study progress and student counselling

1. The dean is responsible for the registration of the study results in such a way that every student can obtain an updated overview of the results registered in the system OSIRIS at that moment.
2. The dean is responsible for providing adequate student counselling.

Article 5.2 Guideline and Regulation Study Advice First Year

1. The degree programme provides for a recommendation regarding continuation of studies as referred to in article 7.8b of the Act, which may result in a rejection. To that purpose further rules have been drawn up, with due consideration for the Guidelines First Year Study Recommendation (*Richtlijn Studieadvies eerste jaar*) laid down by the executive board. These further rules are attached as an appendix 4 to these education and examination regulations.
2. A rejection upon a negative recommendation remains valid for a period of three years. If a student should reregister for the degree programme after this period, this is seen as a first registration in the context of the applicability of these regulations.

Paragraph 6 Teaching evaluation

Article 6.1 Teaching evaluation method

With due observance of the quality assurance system of the university, as laid down in the Handbook Quality Assurance System Degree Programmes Radboud University (Handboek Kwaliteitszorg Onderwijs Radboud Universiteit), the dean sees to it that the units of study taught in the programmes will be systematically evaluated.

Paragraph 7 Miscellaneous stipulations

Article 7.1 Code of conduct

The faculty has instituted a Code of conduct that both students and employees are expected to follow. This Faculty of Social Sciences Code of conduct is attached in Appendix 3 of these regulations.

Article 7.2 Scientific integrity

Regarding research and education within the faculty, regulations about [scientific integrity](#) are in place as elaborated by the University's of the Netherlands (UN).

Part 3 Programme Specific Regulations

Paragraph 8 Admission to the programme and units of study

Article 8.1 Admission requirements

1. Students who wish to enrol in the Bachelor's programme Artificial Intelligence should obtain one of the following diplomas before the start of the academic year:
 - a. A Dutch VWO diploma (Culture & Society with Mathematics A or B; all other VWO profiles allow for direct admission), or
 - b. An HBO propaedeutic diploma (*HBO propedeuse*) or HBO Bachelor's diploma (on the basis of a Dutch HAVO or MBO diploma) with additional certificates that prove proficiency in Mathematics and English at VWO level, or
 - c. A Statement of Admission, which is based on the Colloquium Doctum for the Artificial Intelligence Bachelor's programme at Radboud University, or
 - d. An international diploma of secondary education that is equivalent to Dutch VWO level, including English and Mathematics at this VWO-equivalent level. For Mathematics, the level should be equivalent to Dutch VWO Mathematics A or B.
2. Provided that a student from article 8.1.1.b, 8.1.1.c or 8.1.1.d has not obtained Mathematics A or B at VWO level (or an international equivalent), the student should obtain one of the following certificates that prove proficiency in Mathematics before the start of the academic year:
 - a. Credit VWO Mathematics A or B (*deelcertificaat wiskunde VWO A of B*);
 - b. Boswell-Bèta Mathematics A or B;
 - c. CCVX Mathematics A or B;
 - d. Online Mathematics Placement Test (OMPT-D or OMPT-E);
 - e. SAT Mathematics Test level 1 or 2 (minimum score 600 out of 800) or the Mathematics section of the SAT.
3. Provided that a student from article 8.1.1.b, 8.1.1.c or 8.1.1.d has not obtained English at VWO level (or an international equivalent), the student should obtain one of the following certificates that prove proficiency in English before the start of the academic year:
 - a. Credit VWO English (*deelcertificaat Engels VWO*);
 - b. IELTS Academic: overall score of at least 6.0, all four sub-scores at least 6.0;
 - c. TOEFL iBT: total score of at least 80, all four sub-scores at least 20;
 - d. Cambridge C1 Advanced: minimum mark C;
 - e. Cambridge C2 proficiency: minimum mark C;
 - f. RATER: the Radboud Academic Test of English (RATER) Certificate with a pass on all four sub-scores.

The language certificates set out in section 8.1.3.b (IELTS) and 8.1.3.c (TOEFL iBT) are only valid for a period of two years; the certificates mentioned in section 8.1.3.d and 8.1.3.e are valid for a period of five years.
4. Students that meet one of the following criteria are exempted from obtaining an additional English language proficiency certificate:
 - a. Having obtained an HBO propaedeutic diploma (*HBO propedeuse*) or HBO Bachelor's diploma where the language of instruction is 100% English;
 - b. Having obtained the passing grade for a final exam English within one of the following diploma's: the Austrian

Reifezeugnis/ Reifeprüfungszeugnis, the Belgian Diploma van Secundair Onderwijs, the Danish Studentereksamenbevis, the Finnish Ylioppilastutkintodistus/ Studentereksamen-bevis, the German Zeugnis der Allgemeinen Hochschulreife, the Luxembourg Diplôme de Fin d'Études Secondaires, the Norwegian Vitnemal for Videregaende Skole or the Swedish Slutbetyg från Gymnasieskolan;

- c. Having obtained the International Baccalaureate diploma;
 - d. Having obtained the European Baccalaureate diploma (with English Language 1 or 2);
 - e. Having obtained a diploma that is equivalent to Dutch VWO level by completing education at an institution in Australia, Canada (with the exception of Quebec), Ireland, New Zealand, Singapore, the United Kingdom or the United States of America (where the language of instruction is English).
5. Students that have obtained an HBO Bachelor's diploma (on the basis of a Dutch HAVO or MBO diploma) are admissible to the Bachelor's programme in Artificial Intelligence, provided they demonstrate to possess sufficient knowledge, insight and skills in the field of both Mathematics and English. They can prove proficiency in Mathematics and English through courses they have successfully completed during their HBO Bachelor's degree. Should the Artificial Intelligence Admission Board decide that a student fails to prove this proficiency, they should obtain one of the additional certificates mentioned in article 8.1.2 and 8.1.3 for Mathematics and English, respectively.

Article 8.2 Colloquium Doctum

The Colloquium Doctum admission assessment, referred to in 7.29 of the Act, comprises:

- 1. Having obtained certificates that prove proficiency in English and Mathematics A or B at VWO level or the equivalent certificates as stated in article 8.1.2 and 8.1.3.

Article 8.3 Programme-specific admission requirements

1. Contrary to the provisions in the general part of these regulations, participation in the education and interim examinations of the degree programme is not possible until the requirements listed below are met:

- a. Participation in units of study of the B2 year is possible with a positive study advice;
- b. For students enrolled in the Bachelor's programme in Artificial Intelligence, participation in units of study of the B3 year is only possible after passing every course of the first year.
- c. For students enrolled in other Bachelor degree programmes, participation in units of study of any year is only possible after passing every course of the first year of their degree programme.
- d. In order to take an elective unit of study from another degree programme, students must meet the applicable admission requirements of that programme.
- e. In addition to what is stipulated 1a, 1b. and 1c. students can only participate in the Bachelor's units of study listed below provided they have passed the other units of study of the Bachelor's programme listed after them, or have been granted exemption for these other units of study:
 - SOW-BKI323 Brain-Computer Interfaces *after* SOW-BKI316 Applied Mathematics
 - SOW-BKI250 Natural Language processing *after* NWI- IPK001 Introduction formal reasoning *and after* SOW-BKI137 Probability Theory
 - SOW-BKI300 Bachelor Thesis *after* achieving a minimum of 120 EC of the Bachelor's programme.

2. In individual cases the Examination Board may decide to deviate from the provisions in paragraph 1 at the student's request.

Paragraph 9 Structure and design

Article 9.1 Programme-specific learning outcomes

1. Supplementary to the general learning outcomes described in Article 3.4 of these regulations, the degree programme aims to achieve the following programme-specific learning outcomes:

- a. The student possesses knowledge, skills and insight in the area of artificial intelligence and in particular the cognitive scientific approach to it;
- b. The student is sufficiently prepared for a future professional career in the area of artificial intelligence, with the right to be admitted to the Master's degree programme Artificial Intelligence at Radboud University as well as to:
 - Artificial Intelligence at the University of Amsterdam;
 - Artificial Intelligence at the Free University Amsterdam;
 - Artificial Intelligence at the University of Groningen;
 - Artificial Intelligence at the University Utrecht;
 - Artificial Intelligence at the Open University;
 - Data Science and Artificial Intelligence at Maastricht University;
 - Cognitive Science and Artificial Intelligence at Tilburg University;

2. Further elaboration of this objective is included in Appendix 5.

3. The specific learning outcomes for each unit of study are included in the course description in the most recent course guide.

Article 9.2 Programme language

The programme is taught in English.

Article 9.3 Composition of the first-year programme

1. In accordance with the provisions in Section 3 of these regulations, the first year comprises the following units of study with reference to the corresponding semester (x) and the corresponding study load in EC (total 60):

Note: course name details are subject to change.

Course Code	Name	Semester	EC
SOW-BKI140	Academic Reading & Writing	1	2
SOW-BKI131	Programming 1	1	3
SOW-BKI132	Programming 2	1	3
SOW-BKI104	Calculus I	1	3
SOW-BKI135	Introduction Artificial Intelligence	1	3
SOW-BKI124	Linear Algebra	1	3
SOW-BKI142	Personal & Professional Development	1/2	2
NWI-IPK001	Introduction Formal Reasoning	1	6
SOW-BKI134	Cognitive Psychology	1	3
SOW-BKI137	Probability Theory	1	3

SOW-RADAR-EN	Academic Language	1	0
SOW-BKI122A	AI: Lab Skills	2	3
SOW-BKI114	Human-computer Interaction	2	6
SOW-BKI115A	Introduction Robotics	2	6
SOW-BKI136	Brain	2	3
SOW-BKI141	Research Design & Scientific Method	2	2
SOW-BKI138	Frequentist Statistics	2	3
NWI-IPI005	Object Orientation	2	6

2. A description of the units of study listed in paragraph 1, including contact hours, a summary of the learning objectives, and teaching and assessment methods, is included in the degree programme course guide.

3. The Examination Board may, on request and in individual cases, decide to deviate from the points stipulated in paragraph 1.

Article 9.4 Composition of the second year programme

1. In accordance with the provisions in section 3 of these regulations, the second year comprises the following units of study, with reference to the corresponding semester (x) and the corresponding study load in EC (total 60 EC):

Note: unit of study name details are subject to change.

Course Code	Name	Semester	EC
SOW-BKI256	Functional Programming for AI	1	3
SOW-BKI316	Applied Mathematics	1	6
SOW-BKI248	Societal impact of AI	1	6
NWI-IBI008	Data Mining	1	6
SOW-BKI259	Artificial Intelligence: Principles and techniques	1	6
SOW-BKI260	Calculus II	1	3
SOW-BKI258	Reinforcement Learning	2	3
SOW-BKI250	Natural Language Processing	2	3
SOW-BKI261	Philosophy of Science	2	3
SOW-BKI257	Knowledge Representation	2	3
SOW-BKI230A	Deep Learning	2	6
SOW-BKI203	Bayesian Statistics	2	6

SOW-BK1251	Professional Skills 2	2	3
SOW-BK1255	Cognitive Computational Neuroscience	2	3

2. A description of the units of study described in paragraph 1, including contact hours, a summary of the learning objectives and teaching methods, has been included in the degree programme course guide.

3. In special cases a student may, with the permission of the Examination Board, replace an obligatory unit of study of the programme with a unit of study from another university-level programme. In deciding whether to grant this permission, the Examination Board determines to whether the EER of the other programme is applicable and how to coordinate this with the relevant programme's Examination Board.

Article 9.5 Composition of the third year programme

1. In accordance with the provisions in section 3 of these regulations, the third year comprises the following units of study, with reference to the corresponding semester (x) and the corresponding study load in EC (total 60 EC):

Note: unit of study name details are subject to change.

Course Code	Name	Semester	EC
SOW-BK1300	Bachelor Thesis	1 or 2	12
	<i>Choice of Restricted electives</i>	1 and/or 2	24
SOW-BK1323	Brain-computer Interfaces	1	6
SOW-BK1334	Theoretical Modelling for Cognitive Science	1	6
NWI-IPC033	Information Modelling and Databases	1	6
PSB3BC15E	Cognitive Neuropsychology	1	6
SOW-BK1332	AI as a Science	2	3
SOW-BK1324	Modern Software Development Techniques	2	6
SOW-BK1333	AI in the Connected World	2	3
SOW-BK1331	Multi-Agent Systems	2	3
NWI-IBC036	Big Data	2	6
PSB3BC35E	Signal analysis and MATLAB	2	4
	Free Electives	1 or 2	24

2. A description of the units of study described in paragraph 1, including contact hours, a summary of the learning objectives and teaching methods, has been included in the degree programme course guide.

3. In special cases a student may, with the permission of the Examination Board, replace an obligatory unit of study of the programme with a unit of study from another university-level programme. In deciding whether to grant this permission, the Examination Board determines to whether the EER of the other programme is applicable and how to coordinate this with the relevant programme's Examination Board.

Article 9.6 Programme specific regulations regarding elective units of study

1. The Bachelor's degree programme offers room for 24 EC of restricted elective units of study and 24 EC of free elective units of study.
2. The restricted electives should be chosen from the list of restricted elective units of study included in the degree programme's course guide.
3. In individual cases the Examination Board may grant exemption from the electives if the student has completed an academic first year or a Bachelor's or Master's degree in a discipline other than Artificial Intelligence.

Article 9.7 Programme specific regulations regarding interim examinations

Additionally to the provisions in the general part of these regulations, the compulsory interim examinations of units of study given by other degree programmes must meet the interim examination regulations and be applicable to the degree programme or faculty in question.

Part 4 Transitional and final provisions

Paragraph 10 Transitional regulations

Article 10.1 Transitional regulations

The Artificial Intelligence department continuously reviews and refines the undergraduate curriculum to ensure that it is at the forefront of AI education, meets the highest learning outcomes and standards, and is responsive to the needs of our students. Changes are made with due consideration to minimising negative impact, safeguarding academic standards and maintaining or enhancing the quality of the learning experience.

A transitional regulation applies when curriculum requirements change, and the regulation ensures that the consequences of changes to the curriculum are minimal. A transitional regulation can be helpful if a course that you have not passed is no longer offered, has changed in significant ways, or has moved to another curriculum year of the programme.

Transitional regulations contain information about when resits are scheduled, when courses are (re)scheduled, and/or which academic requirements students have to fulfil instead of, or in addition to, diversified, renewed, or expired courses.

The Education and Examination Regulations (EER) contains rules applicable to teaching and exams, as well as explanations of transitional regulations: <https://www.ru.nl/socialsciences/stip/faculty-study-information/arrangements/education-examination-regulations/>.

Please review the current curriculum in the AI Course Guide: <https://www.ru.nl/courseguides/socsci/>.

The transitional regulations in this document apply to students:

- who started the bachelor's degree AI in academic year 2021-2022 or later
- and have complied with the official curriculum requirements since academic year 2021-2022
- and have not yet completed one or more curriculum requirements

Basis of these transitional regulations:

1. Each student has the opportunity to continue studying the programme in which they have started (cohort), provided that they study nominally.
2. For courses that are offered for the last time, one additional examination opportunity will be offered in the next academic year.

If you are experiencing delays to your academic progress or you have questions about the transitional regulations, you are strongly advised to contact Student Advisor Paul Hömke (Paul.homke@ru.nl) or Simon Hazenberg (simon.hazenberg@ru.nl) to discuss your academic progress and plan for the remainder of your studies.

Additional information:

- "Curriculum year" refers to the three academic years of the bachelor's programme: B1, B2, and B3.
- **N.B.** Please check your [schedule](#) carefully as courses may be offered in different semesters or periods.

1. **New courses** (see course descriptions in prospectus for more information)

New Courses	Curriculum year	Instructions/Remarks
BK140 Academic Reading & Writing (2EC) BK141 Research Design & Scientific Method (2EC) BK1142 Personal and Professional Development (2EC)	2023-2024	The new courses replace: BK1133 Academic Skills -1 (3EC) and, BK1123 Academic Skills -2 (3EC) See further for transitional regulations
BK1340 Honours Bachelor Thesis (12EC)	2023-2024	Only for students following the AI Honours Programme

2. Courses with new names

Course name 2022-2023	Course name 2023-2024
BKI104 Calculus	BKI104 Calculus I
BKI260 Advanced Calculus	BKI260 Calculus II

3. Courses not part of the 2023 programme

Course 2022-2023	Course 2023-2024	Instructions/Remarks
BKI133 Academic & Professional Skills -1 (3EC) BKI123 Academic Skills -2 (3EC)	See replacement in new courses	See further for transitional regulations

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Course 2022-2023	Transitional regulation(s)	Regulation applicable	Instructions/Remarks
BKI133 Academic & Professional Skills -1 (3EC) BKI123 Academic Skills -2 (3EC)	1. Students who passed BKI133 APS1 but failed BKI123 AS2	2023-2024	1. Follow BKI141 Research Design & Scientific Method and do the exam of BKI140 Academic Reading & Writing. Register for BKI141, 140 and 123 – the grade will be registered in BKI123
	2. Students who passed BKI123 AS2 but failed BKI133 APS1	2023-2024	2. Follow BKI140 Academic Reading & Writing and follow an adaptive form of BKI142 Personal & Professional Development (coach meetings + matching assignment) Register for BKI140, 142 and 133 – the grade will be registered in BKI133
	3. Students who didn't pass BKI133 APS1 as well as BKI123 AS 2	2023-2024	3. Follow the new courses BKI140, BKI141 and BKI142. The grades will be assigned to these new course codes. Osiris will have to be manually updated to insert these courses as compulsory in B1.

Paragraph 11 Final provisions

Article 11.1 Safety net scheme and hardship clause

1. The dean will make decisions in individual cases not covered or insufficiently covered by these regulations.
2. In individual cases of extreme unfairness, the Examination Board or the dean is authorised to make an exception to the provisions of these regulations in favour of a student.

Article 11.2 Adoption, employee participation and amendments

1. Notwithstanding the provisions in article 7 of the Structure Regulations of Radboud University, these regulations are drawn up or amended by the dean after receiving advice from the programme committee and after having obtained the approval of the faculties' general assembly (facultaire gezamenlijke vergadering).
2. In special cases, an amendment made to these regulations can take effect in the present academic year, only if this does not disproportionately compromise the interests of the students.

Article 11.3 Publication

1. The dean will be responsible for suitable publication of these regulations and of possible amendments to these.
2. Any interested party may consult the EER on the faculty's website.

Article 11.4 Coming into effect

These regulations will come into effect on 4 September 2023

Any Education and Examination Regulations laid down previously for the degree programme will cease to apply from that date onwards.

As established by the dean on 22June 2023.

Appendix 1

Regulations on Fraud Radboud University

Paragraph 1 Introductory provisions

Article 1 Purpose and scope of these regulations

To prevent fraud during interim examinations and bachelor/master examinations as referred to in article 7.12b WHW, relating to the education and examination in the degree programme mentioned in article 1.1 of this EER, the dean of the faculty of Social Sciences of Radboud University (hereinafter: RU), adopts the following regulations.

Article 2 Definitions

The terms that are used in these regulations - in so far as these terms are also used in the Higher Education and Research Act (Wet op het Hoger onderwijs en Wetenschappelijk onderzoek, hereinafter: WHW) - have the same meaning that is given to these terms in the WHW or the EER.

Paragraph 2 Definition fraud, procedure and sanctions

Article 3 Definition of fraud

1. At RU, fraud is understood to mean any act or omission by a student which, in its nature, is intended to have as an effect that proper assessment of the knowledge, understanding and skills of that student or another student, is made fully or partially impossible.
2. Fraud is in any case understood to mean:
 - a. fraud when taking written interim examinations, including
 - having materials available which are not permitted under the House Rules Examinations Rooms RU Regulations (Regeling Huisregels Tentamenruimten RU);
 - copying or exchanging information;
 - passing oneself off as someone else, or being represented by someone else during interim examinations;
 - b. fraud when producing theses and other papers, including
 - plagiarism in the sense of using or copying someone else's texts, data or ideas without complete and correct source references, plagiarism in the sense of copying the work of another student and presenting this as one's own work and other specifically academic forms of plagiarism; insofar as it leads to the description in paragraph 1.
 - fabricating (making up) and/or falsifying (distorting) research data;
 - submitting a thesis or another paper that was written by someone else.
 - c. other fraud in the context of interim examinations or examinations, including
 - taking possession of assignments, answer keys and the like, prior to the time the interim examination or examination is to take place;

- changing answers to assignments in an interim examination or examination after it has been handed in for assessment;
 - providing incorrect information when applying for an exemption, extension of validity period, and the like, of an interim examination or an examination.
3. An attempt to commit fraud will also be seen as fraud for the purpose of these regulations.

Article 4 Procedure for establishing fraud

1. When fraud is suspected, the examination board or the examiner immediately informs the student of this suspicion. If the suspicion of fraud is established when the interim examination or the examination is administered, the examination board or the examiner will allow the student to complete the interim examination or the examination.
2. The examination board or the examiner may order the student to make any material related to the suspicion of fraud available to them.
3. For the purposes of the provisions in paragraphs 1 and 2 of the present article, examiner is also understood to mean the invigilator or any other RU member of staff.
4. The examination board or the examiner drafts a report of the suspicion of fraud. If the examiner drafts the report, he will send this report to the examination board without delay.
5. The examination board makes the report referred to in article 5 available to the student without delay and then starts an investigation into the matter. The examination board provides the student with the opportunity to respond to the report in writing. The examination board hears both the examiner and the student.
6. Within four weeks following the date the report was made available to the student, the board of examiners decides whether fraud was actually committed. The examination board informs both the student and the examiner of their decision in writing. The four-week period may be extended by two weeks.

Article 5 Remedial action

If the examination board has established fraud:

- a. the examination board declares the relevant interim examination or examination invalid, and
- b. the examination board includes a statement in the student's student file that it has established fraud and, if applicable, which sanctions have been imposed.

Article 6 Sanctions

1. If the examination board has established fraud has been committed, the board may:
 - a. determine that the student may not sit one or more interim examinations or examinations during a period to be set by the examination board, which period will be a maximum of one year;
 - b. determine that no distinction will be awarded on the degree certificate;
 - c. make a recommendation to the Dean of the Honours Academy that the student should not be admitted to the honours programme of the university or the faculty or recommend that the student's participation in the honours programme of the university or the faculty should be ended.

2. If the examination board has established that serious fraud has been committed, the board may also
 - a. make a recommendation to the executive board that the student's registration for a programme should be terminated with definitive effect.
3. After the examination board has established that serious fraud has been committed, the executive board - upon examination boards' recommendation - may terminate the student's registration for a programme with definitive effect.
4. The sanctions as referred to in this article are imposed as from the day following the date the student is notified of the decision that sanctions are imposed.

Paragraph 3 Transitional provisions

Does not apply.

Paragraph 4 Final provisions

Article 7 Decisions and legal protection

1. Decisions pursuant to these regulations may be sent to the student digitally and/or by email.
2. The student can appeal against any decision made under these regulations, within six weeks following the date on the relevant decision, by lodging a notice of appeal at the Examinations Appeals Board (College voor Beroep van de Examens [CBE]).

Article 8 Adoption, medezeggenschap and amendment

1. These regulations are adopted by dean.
2. In so far as the content of these regulations relates to the duties and powers of the degree programme's examination board, the content must also be confirmed by that examination board.

Article 9 Effect

These regulations take effect on 1 September 2019. These regulations will then replace any previous regulations.

Article 10 Publication

1. The dean ensures the appropriate publication and possible amendments of these regulations.
2. For the purpose of appropriate and clear provision of information to students and prospect students, the dean includes these regulations, every year, as an appendix to the Education and Examination Regulations (Onderwijs- en Examenregeling, OER) and as an appendix to the Rules and Guidelines (Regels en Richtlijnen, RR) of the programme.

Appendix 2

Regulations on Examination Rooms Radboud University

Paragraph 1 Introductory provisions

Article 1 Purpose and scope of the regulations

For the proper course of events during interim examinations and bachelor/master examinations relating to the education and examination of the degree programme mentioned in article 1.1 of this EER that are administered in examination rooms at the Radboud University (hereinafter: RU), the dean of the faculty of Social Sciences of the RU adopts the following regulations.

Article 2 Definitions

The terms that are used in these regulations - in so far as these terms are also used in the Higher Education and Research Act (Wet op het Hoger onderwijs en Wetenschappelijk onderzoek, hereinafter: the Act) or the Education and Examination Regulations of the degree programme (hereinafter: the EER) - have the same meaning that is given to these terms in the Act and the EER.

Article 3 Examiners and invigilators

For the administration of examinations, the examination board of the degree programme as mentioned in article 1 (above) has appointed one or more examiners. The examiners appointed as referred to in paragraph 1 are responsible for the supervision and execution of the provisions in these regulations. On behalf of the examiner(s) appointed, one or more invigilators may be present in the examination rooms, assigned by or on behalf of the executive board. When invigilators have been assigned, at least one appointed examiner is also present in the examination room or, as appropriate, available on call.

Article 4 Instructions by the executive board

1. These regulations include instructions in the sense of article 7.57h of the Act. In view of the executive board's mandating decision dated 15 May 2019, the dean is authorised to adopt these instructions on behalf of the executive board. The student is obliged to comply with the instructions laid down in these regulations.
2. A student who fails to comply with any instructions under these regulations may be denied access to the examination room by or on behalf of the examiner. Non-compliance with the instructions may also lead to a suspicion of fraud in the sense of the Regulations on Fraud (*Regeling Fraude*).

Article 5 Guidelines for examiners

These regulations include instructions in the sense of Article 7.12b of the Act. The examiner is obliged to comply with the instructions laid down in these regulations.

Article 6 Instructions by examiners for students

1. The examiner may give instructions, in the context of the instructions described in these regulations, to a student in the RU examination room if a concrete situation should be cause for this. The student is obliged to comply with these instructions.
2. The student who fails to comply with the instructions referred to in paragraph 1 may be denied access to the examination room by or on behalf of the examiner. Non-compliance with the instructions may also lead to a suspicion of fraud in the sense of the Regulations on Fraud (*Regeling Fraude*).

Paragraph 2 House Rules

Article 7 Admission to the examination room and leaving it

1. With respect to entering and leaving the examination rooms, the following applies:
 - a. the examination room is accessible for the student at least 15 minutes before the examination starts;
 - b. except in the circumstances described in paragraphs c and d of the present article, the student is no longer admitted into the examination room after the examination has started;
 - c. the student who arrives too late at the examination room is given the opportunity, 15 minutes following the start of the examination, to be as yet admitted into the examination room;
 - d. the student is permitted to use the toilet during the examination;
 - e. the student is not allowed to leave the examination room within the first 30 minutes following the start of the examination.
2. In special circumstances the examiner may act contrary to the provisions in paragraph 1. If the provisions in paragraph 1 are departed from, the student will be informed of this in due time.

Article 8 Student ID

1. In the examination room the student must be able to furnish proof of identity, at any time, by producing a valid identity document.
2. The student who cannot furnish proof of identity as laid down in the first paragraph of the present article will not be admitted into the examination room or can as yet be denied access to that room.

Article 9 Start and duration of the examination

The examiner starts the examination at the time scheduled. If the examination starts at a later moment in time because of relevant circumstances, the examiner ensures that the scheduled duration of the examination can be fully used by the student.

Article 10 Materials permitted in examinations

1. When taking the interim examination, the student is not allowed to have materials available that serve or could serve as auxiliary materials for the examination paper, unless the use of that material has been explicitly permitted by the examiner before the start of the examination.

2. Materials for the purpose of these regulations include, amongst other things: textbooks and dictionaries, notes and lecture notes, and watches, laptops, tablets, telephones and other smart device's and/or wearables.

Article 11 Handing in examination papers

1. When the examination ends, the student is obliged to hand in the examination paper.
2. The student may also be required to hand in other examination materials, such as examination question papers and/or note paper used during the examination.

Article 12 Peace and order, furniture and fixtures in the examination room

1. Coats, satchels, bags, etc. must be put away in compliance with the examiner's instructions.
2. In order to prevent interference with the WIFI signal, any devices that are present in the examination room, such as watches, laptops, tablets, telephones, and any other devices or smart devices and/or wearables, must be switched off in compliance with the examiner's instructions.
3. Without prejudice to the provisions in the previous paragraphs, the examiner ensures, both during and after completion of the examination, that any measures are taken as required for adequate surveillance and for maintaining the necessary peace and order in the examination room.
4. Whenever an examination is administered, the examination room has at least one clock which is clearly visible for each student.
5. Eating and drinking is allowed during the examination, unless this should prevent appropriate surveillance and/or maintaining the necessary peace and order.

Paragraph 3 Transitional provisions

Does not apply.

Paragraph 4 Final provisions

Article 13 Departure from rules and house rules

In special circumstances the examiner may depart from the provisions in these regulations.

Article 14 Adoption and amendment

1. These regulations are adopted and amended by the dean.
2. In so far as the content of these regulations relates to the duties and powers of the programme's examination board, the content must also be confirmed by that examination board.

Article 15 Effect

These regulations take effect on 1 September 2019. These regulations then replace any previous regulations.

Article 16 Publication

1. The dean ensures the appropriate publication and any amendments of these regulations.
2. For the purpose of appropriate and clear provision of information to students and prospective students, the dean includes these regulations, every year, as an appendix to the Education and Examination Regulations (Onderwijs- en Examenregeling (OER). The examination board includes these regulations accordingly as an appendix to the Rules and Guidelines (Regels en Richtlijnen (RR)) of the programme that are laid down by that board.

Thus, adopted by the dean on June 26, 2019 and ratified by the examination board.

APPENDIX 3

Faculty of Social Sciences code of conduct

The Faculty of Social Sciences seeks to offer a work environment where employees and students work and study with effort, joyfully, and aimed towards results. To facilitate this, the faculty has adopted a number of rules governing conduct within the faculty. These rules of conduct are taken to form the foundation of a motivating and inspiring work environment. It is the mutual responsibility of employees and students to follow them.

The faculty seeks to provide an atmosphere characterised by:

- mutual respect and personal development;
- openness and trust;
- cooperation and responsibility.

This implies that

- everyone should be treated with respect, without being offensive or hurtful;
- you should treat others as you wish to be treated. This goes for all forms of all contact on campus that occurs between staff and students and for all forms of communication, including verbal, written, e-mail, Brightspace, chat rooms, and course evaluations;
- everyone makes sure to familiarise themselves with and act according to the rules in the various regulations (e.g. EER, student-act, regulation on academic integrity, the terms of use for the RU-network and SURFnet) as well as the agreements made with respect to attendance, deadlines, review periods, completing assignments, among others;
- one sticks to the rules and agreements once made;
- students and examiners are jointly responsible for the successful functioning of the educational process and they can and may appeal to their responsibility;
- one assumes good intentions of each other and one does not adhere to prejudicial judgements;
- everyone makes sure to be familiar with relevant information and recent changes in the educational organisation and content;
- everyone respects each other's property and takes good care of spaces and materials used.

Basically, this all boils down to the same thing: treat each other with respect. The faculty trusts that students and employees will act accordingly.



Regulations First Year Study Recommendation

November 2022

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Section 1 Introductory provisions

Article 1 Legal basis for the regulations

The regulations are based on article 7.8b of the Higher Education and Research Act (*Wet op het hoger onderwijs en wetenschappelijk onderzoek*), hereinafter to be referred to as 'the Act', and the guidelines adopted by the executive board dated 11 October 2022, the Guidelines First Year Study Recommendation (*Richtlijn Studieadvies eerste jaar*).

Article 2 Purpose of the regulations

These regulations include the implementation rules referred to in article 7.8b, sixth paragraph, of the Act.

Article 3 Scope of the regulations

These regulations apply for students who have not yet completed the propaedeutic phase of the bachelor's degree programme, including former students in the academic year in which they were registered for the propaedeutic phase of a bachelor's degree programme.

Article 4 Definitions

1. The terms that are used in these regulations – in so far as these terms are also used in the Act – have the same meaning that is given to these terms in the Act, unless paragraph 2 provides otherwise.

2. Without prejudice to the provisions in paragraph 1, the following terms have the following meaning in these regulations:

- a. rejection: a rejection attached to a recommendation as referred to in article 7.8b, third paragraph, of the Act, on the basis of which the registration of the student for the relevant degree programme is terminated and reregistration is not possible;
- b. propaedeutic phase: the first period in a bachelor's degree programme with a study load amounting to 60 European Credits (hereinafter: ECs);
- c. recommendation: a study recommendation as referred to in article 7.8b, third paragraph, of the Act regarding the continuation of the degree programme;
- d. study progress standard: the requirements with respect to the study results as referred to in article 7.8b, third paragraph, of the Act expressed in a number of ECs;
- e. Implementation Decree: Implementation Decree Higher Education and Research Act (*Uitvoeringsbesluit WHW (Wet op het hoger onderwijs en wetenschappelijk onderzoek) 2008*).

Section 2 Recommendation and rejection

Article 5 Making recommendations regarding the continuation of studies

1. In the propaedeutic phase of a bachelor's degree programme, the dean issues a recommendation to every student regarding the continuation of their studies. The point in time the recommendation is made is laid down in section 3.
2. The recommendation to be made by the dean may be construed as:
 - a. A 'positive recommendation' as referred to in article 6, i.e. a recommendation to students to continue their degree programme, or
 - b. A 'negative recommendation' as referred to in article 7, i.e. a recommendation to students not to continue their degree programme.
3. Contrary to the provisions of paragraph 1, no recommendation is issued to students who terminated their registration for the degree programme before 1 March of the first year of registration.
4. Contrary to the provisions of paragraph 1, no recommendation is issued to students who were registered for the first time for the degree programme after 31 January and who have not reregistered for the next academic year.

Article 6 Positive recommendation

The dean issues a 'positive recommendation' if the student has met the relevant study progress standard referred to in section 3.

Article 7 Negative recommendation

The dean issues a 'negative recommendation' if the student has failed to meet the relevant study progress standard referred to in section 3.

Article 8 Rejection following negative recommendation

1. The dean attaches a rejection to the 'negative recommendation' referred to in article 7, unless the student has failed to meet the study progress standard as a result of one or more personal circumstances listed and referred to in section 4.
2. The rejection referred to in paragraph 1 has a duration of three years.
3. The dean may only attach a rejection to a recommendation if:
 - a. such facilities have been made available in the propaedeutic phase of the relevant degree programme that the opportunities for proper study progress have been safeguarded, and
 - b. the dean has issued a warning, as referred to in article 21, to the student.
4. The rejection referred to in paragraph 1 may extend to degree programmes with the same propaedeutic year.
5. If the dean should attach a rejection to a negative recommendation, the student is not deemed suitable for the degree programme.

Article 9 Postponed decision on recommendation

1. If no opinion can be given on the student's unsuitability for the degree programme because of personal circumstances that have occurred in the first year of study, the dean postpones issuing the recommendation.

2. In exceptional circumstances, the dean may decide, stating reasons, to postpone the recommendation once again.

Section 3 Study progress standard

Article 10 Study progress standard upon first registration before 31 January

Students who have registered for the first time for the propaedeutic phase of a bachelor's degree programme receive the recommendation at the end of the same academic year, at the latest on 31 August of that academic year. The following study progress standards apply:

- a. for a full-time bachelor's degree programme: [42-43-44-45] ECs;
- b. for a part-time bachelor's degree programme: [21-22-23] ECs.

Article 11 Study progress standard upon first registration after 31 January

Students who have registered for the first time in the previous academic year after 31 January for the propaedeutic phase of a bachelor's degree programme receive the recommendation at the end of the next academic year, at the latest on 31 August of that academic year. The following study progress standards apply:

- a. for a full-time bachelor's degree programme: 60 ECs;
- b. for a part-time bachelor's degree programme: 30 ECs.

Article 12 Study progress standard upon reregistration after discontinuation of studies

Students who have not received, with due consideration of article 5, paragraph 3 or 4, a recommendation in a previous first year of registration and who reregister for the degree programme within a period of three years, receive the recommendation at the end of the academic year in which the student has reregistered for the degree programme, at the latest on 31 August of that academic year. The following study progress standards apply:

- a. for a full-time bachelor's degree programme: 60 ECs;
- b. for a part-time bachelor's degree programme: 30 ECs.

Article 13 Study progress standard after postponed decision on recommendation

Students for whom the decision concerning the recommendation, with due consideration for article 9, has been postponed receive the recommendation at the end of the next following academic year, at the latest on 31 August of that academic year. The following study progress standards apply:

- a. for a full-time bachelor's degree programme: 60 ECs;
- b. for a part-time bachelor's degree programme: 30 ECs.

Article 14 Decision whether the standard has been complied with

In order to determine whether the study progress standards referred to in this section have been complied with, only ECs are taken into account that have been obtained for components in the examination programme of the propaedeutic phase of the relevant bachelor's degree programme, including ECs that have been granted for exemptions for the relevant components.

Article 15 Dual degree programmes

If required, the dean may depart from the provisions in this section with regard to students who have registered for an approved dual degree programme.

Section 4 Provisions for study progress; personal circumstances

Article 16 Facilities for study progress

The degree programme offers the following facilities to safeguard the opportunities for proper study progress: [insert a list of the facilities that are offered, for example:

- the way in which the introduction of first-year students takes place
- student counselling
- counselling hours
- the contact details of the study advisor(s) and student counsellors
- anything else the degree programme offers in the field of student counselling

Article 17 Personal Circumstances - Implementation Decree

The degree programme offers the following facilities to safeguard the opportunities for proper study progress: [insert a list of the facilities that are offered, for example:

- the way in which the introduction of first-year students takes place
- student counselling
- counselling hours
- the contact details of the study advisor(s) and student counsellors
- anything else the degree programme offers in the field of student counselling]

When deciding on attaching a rejection to a negative recommendation, the dean takes into consideration personal circumstances as referred to in article 2.1 of the Implementation Decree (*Uitvoeringsbesluit*).

Article 18 Personal Circumstances - Radboud University

In addition to the provision of article 17, the dean, when issuing the recommendation, also takes into consideration the following personal circumstances as personal circumstances:

- a. the student's taking part in sports at top level;
- b. the student's being a top talent in arts or culture.

Article 19 Prompt notice of personal circumstances

In the event a student cannot (possibly) meet the study progress standard as a result of any circumstances referred to in this section, the student must inform the study advisor as soon as possible. Upon prompt notice of personal circumstances that are prejudicial to study progress, the institute may take measures to safeguard the study progress as much as possible.

Article 20 Burden of proof personal circumstances

The student may be requested to substantiate the claim of personal circumstances in more detail or to make a plausible case for these circumstances.

Section 5 Procedure and decision making

Article 21 Preliminary recommendation and interview

As soon as possible after the end of the first semester in which the student is registered for a degree programme, the dean issues a preliminary recommendation on the basis of the results registered at that moment. The preliminary recommendation is meant as a warning for students who have failed to make adequate study progress. The relevant students are advised to make an appointment with the study advisor to discuss in which way their performance could be improved or which other degree programme could be an alternative.

Article 22 Information by study advisor in writing

1. If the student has failed to meet the applicable study progress standard, the dean obtains information, prior to the decision on the recommendation, from the study advisor with respect to the student's personal circumstances, as referred to in section 4. The study advisor may then advise the dean on the recommendation to be issued.
2. The study advisor supplies the information referred to in the previous paragraph in writing. The student receives a copy of it.

Article 23 Intended recommendation

1. In view of the information provided by the study advisor referred to in article 22, the dean drafts an intended decision on the recommendation.
2. The dean communicates the intention referred to in paragraph 1 to the student and offers the student the opportunity to be heard before the decision is made.

Article 24 Hearing the student

1. In view of the provisions of article 23, the student is heard, upon request, by the dean.
2. In the event the student does not make use of the opportunity to be heard, the dean automatically converts the intended decision referred to in article 23 in an identical decision on the recommendation.
3. In the event the student makes use of the opportunity to be heard, the dean decides on the recommendation with due observance of what was discussed during the hearing.

Section 6 Final provisions

Article 25 Implementation of the regulations and mandates

For the implementation of the provisions in these regulations the dean has issued, in a separate decision, the following mandates:

	Task authority	Source	Authorised person	Right of Substitution?
1.	Issuing recommendation	Article 5	Committee First Year Study Recommendations	No
2.	Rejection	Article 8	Committee First Year Study Recommendations	No

Article 26 Digital dispatch

Announcements further to and decisions pursuant to these regulations are sent to the student digitally, through *Osiris* and/or to the email address the student has registered in *Osiris*.

Article 27 Legal protection

1. The student can lodge an appeal against decisions made pursuant to these regulations at the Examinations Appeals Board (*College van Beroep voor de examens*) within six weeks following the date on the relevant decision.
2. The appeal referred to in paragraph 1 has no suspensive effect.

In all situations these regulations do not provide for, or do not sufficiently provide for, the executive board decides.

Article 28 Catch-all provision

In all situations these regulations do not provide for, or do not sufficiently provide for, the executive board decides.

Article 29 Entering into effect

1. These regulations enter into effect on 4 September 2023.
2. These regulations replace previous regulation and guidelines in relation to the recommendations referred to in these regulations, including the Guidelines Binding Study Recommendations (*BSA*) 2019-2020 (*Richtlijn BSA 2019-2020*).

Article 30 Publication

The dean publishes these regulations by attaching them as an appendix to the education and examination regulations of the relevant bachelor's degree programme.

Article 31 Short title

These regulations may be quoted as the 'Regulations First Year Study Recommendation', with reference to the relevant bachelor's degree programme.

Article 32 Adoption

With due observance of the provisions in the Guidelines First Year Study Recommendation (*Richtlijn Studieadvies eerste jaar*) adopted by the executive board, these regulations are adopted by the dean of the faculty [insert placeholder] on [insert date].

APPENDIX 5 LEARNING OUTCOMES OF THE BACHELOR'S PROGRAMME

For both the BSc/MSc programmes, the integration of knowledge and skills, as well as imparting a critical and academic stance are central goals. These can be operationalised in terms of five AI learning objectives that reflect the Nijmegen AI profile and fully adhere to the five “Dublin Descriptors”, which describe the desired level of the Bachelor’s and Master’s programmes in general terms.

The five AI learning objectives are implemented through ten learning outcomes for the Bachelor’s programme and eleven for the Master’s. Both the learning objectives and learning outcomes fit the description of the KION domain-specific frame of reference (KION-FoR), while doing justice to the AI profile in Nijmegen. The learning outcomes form an excellent means to enforce the five objectives on the one hand, and to provide solid requirements for the implementation of the educational learning environment on the other hand. As illustrated in figure 1, it is through the specification, assessment and evaluation of the learning goals of each individual course that the BSc/MSc programmes implement a high-quality educational learning environment, which adheres to academic standards as well as to the KION-FoR.

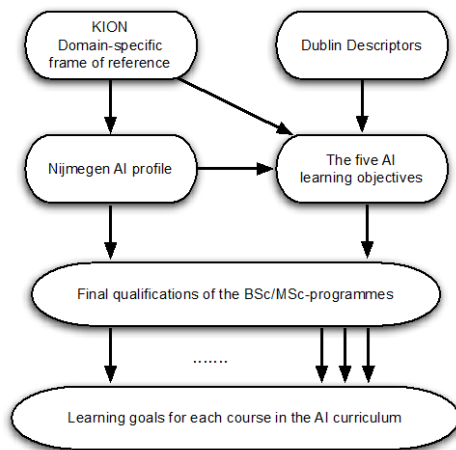


Figure 1

Implementation scheme for the intended learning outcomes of the BSc/MSc-programmes: profile, objectives, final qualifications and course goals.

Objectives for the Bachelor’s programme

The five learning objectives for the Bachelor’s programme in Artificial Intelligence are described below. Through achieving these learning objectives, students acquire research skills in the area of artificial intelligence and are able to develop computational models that implement aspects of artificial or natural intelligence, as well as thoroughly analyse such models. They will be able to formulate relevant research hypotheses, adequately test these, and develop well-rounded arguments in order to draw conclusions in their research.

Objective 1 Acquisition of knowledge and understanding

Students acquire up-to-date knowledge and understanding across the full breadth of the artificial intelligence discipline. This comprises the core concepts and theories from mathematics, computer

science, cognitive psychology, philosophy, neuroscience and language.

Objective 2 Application of knowledge and understanding

Students can apply acquired knowledge in order to understand the theoretical and practical problems in artificial intelligence. Through supervision, students are able to define a given research question and use computational resources in order to provide an answer to the given question.

Objective 3 Critical judgment

Students are able to reason critically and academically. This implies that students can form an opinion on the scope and applicability of existing and new scientific insights. Students are aware of presuppositions and social consequences of research and are able to critically reflect on their own professional opinions, actions and behaviour.

Objective 4 Communication

Students are able to adequately express their knowledge, insights and findings both orally and in writing. They are trained in presenting, understanding and evaluating research results, enabling them to effectively communicate with fellow students, professionals and laymen. As a result, graduated Bachelor's students will be capable of communicating about artificial intelligence in various contexts.

Objective 5 Learning skills

Students are responsible for their own education and are able to guide their own learning process with guidance and supervision, thus helping them to become aware of their own strengths, limitations and weaknesses. Students should possess the skills to complete the Bachelor's programme with a high degree of independence in order to continue their academic training and development within the professional field.

As shown in figure 1, the learning outcomes of the Bachelor's programme are derived from the five Artificial Intelligence learning objectives. The profile of Bachelor's graduates in Artificial Intelligence is specified below in relation to the learning outcomes:

1. *Relevant level:* Bachelor's graduates (henceforth graduates) have a basic understanding of the key areas in AI, as well as more advanced knowledge in at least one of these areas.
2. *Relevant disciplines:* Graduates possess essential knowledge and understanding regarding relevant aspects of psychology, informatics, mathematics, logic, linguistics, philosophy and neuroscience. This enables them to develop and apply original ideas, with supervision.
3. *Cognition:* Graduates possess essential knowledge and understanding regarding human cognition, such as problem-solving, perception, language and motor skills.
4. *Methods and technology:* Graduates have essential knowledge and understanding regarding methods and techniques in artificial intelligence, such as search techniques, deduction methods, machine learning methods and logic.

5. *Analytical skills*: Through supervision, graduates are able to analyse a computational problem, formalize theoretical solutions to such problems, translate theoretical solutions into an algorithm or model, and formalise and validate the theoretical predictions.
6. *Paradigms*: Graduates are able to describe and comment on relevant aspects of current research, for example similarities and differences in architecture and functionality of different models such as symbolic, connectionist and probabilistic models. They also understand the theoretical implications of these aspects, and understand the relevance of different types of models for different areas of application.
7. *Philosophy*: Graduates have an eye for the philosophical foundations and implications of the influential paradigms and model types in artificial intelligence, as well as the social and ethical implications of developments in the field, for instance regarding topics like autonomy, privacy and social implications of robotics.
8. *Communication*: Graduates are able to express themselves in writing in accordance with the acceptable norms within artificial intelligence for scientific publications, relating to both form and content. They are able to effectively process articles in relevant journals. Additionally, they should be equipped to express themselves orally with accurate terminology to such an extent that they can report on conducted research and can communicate clearly with specialists in artificial intelligence and non-specialists alike.
9. *Research*: Graduates are able to design, conduct and analyse empirical research through the application of the acquired methods and techniques, as well as observing, consolidating, expanding and applying their knowledge and understanding acquired through this research. The product is potentially suitable for publication in peer-reviewed forums such as the BNAIC.
10. *Practical application*: Graduates are able to think and act in a practical manner. They can translate practical requirements into design of and improvements to a computer program. They are able to apply the acquired competences in different practical applications, such as major programming tasks that demand a working product to be tested through demonstration sessions, or designing empirical or theoretical research projects regarding the design, implementation and testing of software products.
11. *Critical attitude*: Graduates have a critical scientific attitude towards research in artificial intelligence in particular. They are able to critically evaluate and assess arguments, assumptions, abstract concepts and (possibly incomplete) data in terms of reliability and validity. They have the ability to integrate and develop (partially under supervision) multidisciplinary knowledge and scientific research questions and to tackle these questions largely independently and autonomously.
12. *Learning skills*: Graduates have obtained the necessary learning skills to reflect on one's own style of thought and working methods, to recognize the need for continued learning and to reflect on the job market to build the basis of one's own career path.