

Teaching and Examination Regulations

Faculty of Science

Master's programme in Artificial Intelligence

Academic year 2025-2026

A. Faculty section

B1. Programme-specific section – general provisions

B2. Programme-specific section – content of programme

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Section A: Faculty section

1. General provisions

Article 1.1 Applicability of the Regulations

1. These Regulations apply to anyone enrolled in the programme, irrespective of the academic year in which the student was first enrolled in the programme.	Advice OLC, approval FGV (9.38 sub b)
2. These Regulations enter into force on 1 September 2025.	Advice OLC, approval FGV (9.38 sub b)
3. An amendment to the Teaching and Examination Regulations is only permitted to concern an academic year already in progress if this does not demonstrably damage the interests of students.	Advice OLC, approval FGV (9.38 sub b)

Article 1.2 Definitions

The following definitions are used in these Regulations (*in alphabetical order*):

- a. academic year: the period beginning on 1 September and ending on 31 August of the following calendar year;
- b. EC (European Credit): a course credit with a workload of 28 hours of study;
- c. examination: an assessment of the student's knowledge, understanding and skills relating to a unit of education. The assessment is expressed in terms of a final mark. An examination may consist of one or more partial examinations. A resit always covers the same material as the original examination. An examination can be completed in writing, orally or in another way;
- d. final examination: a Master's programme consists of a Master's examination;
- e. internship: period spent working in professional practice as part of a study programme;
- f. 1. joint degree: a degree awarded by an institution together with one or more institutions in the Netherlands or abroad, after the student has completed a study programme (a degree programme, a major or a specific curriculum within a degree programme) for which the collaborating institutions are jointly responsible;
2. double degree: partnership between a programme of a Dutch educational institution with a foreign educational institution, whereby students complete all or part of both study programmes and obtain two diplomas on the basis of agreements regarding the mutual recognition of the programme (replacement courses);
- g. period: a part of a semester;
- h. practical exercise: participation in a practical training or other educational learning activity, aimed at acquiring certain (academic) skills. Examples of practical exercises are:
 - researching and writing a thesis or dissertation
 - carrying out a research assignment
 - taking part in fieldwork or an excursion
 - taking part in another educational learning activity aimed at acquiring specific skills, or
 - participating in and completing a work placement;
- i. programme: the totality and cohesion of the units of education, teaching activities/methods, contact hours, testing and examination methods and recommended literature;
- j. SAP/SLM: the student information system (*Student Lifecycle Management*);

- k. semester: the first (September - January) or second (February - August) half of an academic year;
- l. specialisation: optional route of study within a degree programme indicating a deepening of the context of the programme (e.g. interdisciplinary or multidisciplinary);
- m. student person studying;
- n. student statute: sets out the rights and responsibilities of students on the one hand, and of Vrije Universiteit Amsterdam on the other hand, including those derived from the law and those derived from university regulations. The Executive Board (CvB) officially confirms the student statute once its completeness has been approved by the University Student Council (USC);
- o. study guide: the guide for the study programme that provides further details of the courses, provisions and other information specific to that programme. The Study Guide is available electronically at: <https://studiegids.vu.nl/en#/>;
- p. study monitor: dashboard for students and academic advisors containing data pertaining to the student, including the student's study progress;
- q. subject: see t. 'unit of education';
- r. thesis a unit comprising research into the literature and/or contributing to scientific research, always resulting in a written report;
- s. track: a study pathway within a broader Bachelor's or Master's degree programme, such as a fully English-language study pathway within a Dutch-language Bachelor's or Master's programme;
- t. unit of education: a unit of study of the programme within the meaning of the WHW;
- u. university: Vrije Universiteit Amsterdam;
- v. WHW: the Dutch Higher Education and Research Act (Wet op het Hoger Onderwijs en Wetenschappelijk Onderzoek);
- w. workload: the workload of the unit of education to which an examination applies, expressed in terms of credits = EC credits (ECTS = European Credit and Transfer Accumulation System). The workload for 1 year (1.680 hours) is 60 EC.

The other terms have the meanings ascribed to them by the WHW.

2. Study programme structure

Article 2.1 Structure of academic year and units of education

1. The study programme will be offered in a year divided into two semesters.	Ordinance CvB, see Appendix III
2. Every semester consists of three consecutive periods. The first two periods each consist of eight weeks, and the final period consists of four weeks.	Ordinance CvB, see Appendix III
3. A unit of education comprises 6 EC or a multiple thereof.	Ordinance CvB, see Appendix III
4. By way of exception to paragraph 3, the Executive Board may in special cases and on request of the Faculty Board, stipulate that a unit of education comprises 3 EC or a multiple thereof.	Ordinance CvB, see Appendix III

3. Assessment and examination

Article 3.1 Signing up for education and examinations

1. Every student must sign up to participate in the units of education of the programme, the examinations and resits. The procedure for signing up is described in an annex to the student statute.	Ordinance CvB, see Appendix III
2. Signing up may only take place in the designated periods.	Ordinance CvB, see Appendix III

Article 3.2 Type of examination

1. At the examiner's request, the Examination Board may permit a different form of examination than is stipulated in the study guide.	Advice OLC, approval FGV (7.13 l)
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Article 3.3 Oral examinations

1. No more than one student will be examined orally at a time, unless specified otherwise in part B for the relevant unit of education.	Advice OLC; approval FGV (7.13 l and n)
2. A second examiner is present when an oral examination is being held, unless the Examination Board has determined otherwise. The oral examination takes place at a time and location to be determined by the examiner within the regular timetable, on campus or online. At the request of the student, and with the approval of the examiners, an audio recording can be made. Should the second examiner not be available unexpectedly, an audio recording of the oral exam can be made. This audio recording is retained by the university for the retention period applicable for examinations.	Advice OLC; approval FGV (7.13 l and n)

Article 3.4 Determining and announcing results

1. The examiner determines the result of a written examination within fifteen working days. However, the marking deadline for theses and final assignments is no longer than twenty working days after submission. The examiner will then immediately ensure that the marks are registered and also ensures that the student is immediately notified of the mark, taking due account of the applicable confidentiality standards.	Ordinance CvB, see Appendix III
2. The examiner determines the result (i.e. mark) of an oral examination as soon as possible, but at the latest within one working day after the examination has finished and informs the student accordingly. The third clause of the first paragraph applies.	Advice OLC; approval FGV (7.13 o)
3. In the case of assessments other than oral or written examinations, the Examination Board determines in advance how and by what deadline the student will be informed of the results.	Advice OLC; approval FGV (7.13 o)

Article 3.5 Examination opportunities

1. a. Per academic year, two opportunities to take examinations will be offered for each unit of education. b. By way of exception to a., the options for retaking practical exercises, work placements and theses are detailed in the relevant work placement manual, course manual or teaching regulations.	Ordinance CvB, see Appendix III
2. The most recent mark will apply in the event of a resit. A resit is allowed for both passed and failed units of education.	Ordinance CvB, see Appendix III

3. The resit for an (partial) examination may not take place within ten working days of the announcement of the results for the original (partial) examination. Exceptions are only possible in period 6.	Advice OLC; approval FGV (7.13 j)
4. The Examination Board may allow a student an extra opportunity to sit an examination if that student: a) lacks only those credits to qualify for their degree; and b) has failed the examination during all the previously offered attempts unless participation in an examination was not possible for compelling reasons. The extra opportunity can only be offered if it concerns a written examination, a paper or a take home examination. This provision excludes the practical exercises and the Master's thesis. Requests for an additional examination opportunity must be submitted to the Examination Board no later than 15 July. If necessary, the method of examination may deviate from the provisions in the study guide.	Ordinance CvB, see Appendix III
5. If a unit of education is no longer offered, at least one additional opportunity will subsequently be provided to sit the examination(s) or parts thereof and a transitional arrangement will be included in section B.	Advice OLC, approval FGV (7.13 j)

Article 3.6 Marks

1. (Partial) grades are given on a scale from 1 to 10 with no more than one figure after the decimal point.	Ordinance CvB, see Appendix III
2. A final mark between 5 and 6 will be rounded to the nearest whole number: final marks below 5.5, rounded down; final marks of 5.50 or higher, rounded up. All other final marks will be expressed in whole or half marks.	Ordinance CvB, see Appendix III
3. To pass a given course or unit, a final mark of 6 or higher is required.	Ordinance CvB, see Appendix III
4. The Examination Board can allow the use of symbols rather than numbers, for example: s(atisfactory), g(ood), u(n)s(at)is(factory), etc. In case a student does not take part in any examination, the examiner will register the mark 'ns' (c.q. no show).	Ordinance CvB, see Appendix III

Article 3.7 Exemption

1. At the written request of the student, the Examination Board may exempt the student from taking one or more examination components, if they: a. have either passed a unit of education at a university or university of applied sciences (HBO) or a research university (WO) that is equivalent in terms of content and level; or b. have demonstrated through their work and/or professional experience that they have sufficient knowledge and skills with regard to the relevant unit of education.	Advice OLC; approval FGV (7.13 r)
2. The Master's thesis is excluded from this exemption possibility.	Advice OLC; approval FGV (9.38 sub b)
3. a. A maximum of 18 EC for a one-year Master's programme and 36 EC for a two-year Master's programme can be accumulated through granted exemptions. The substituting courses are not included. b. This regulation does not apply if a student is (simultaneously) enrolled in multiple programmes, which lead to multiple degrees, where courses may be part of both programmes. In such a case, the Examination Board may deviate from the regulations under a.	Advice OLC; approval FGV (9.38 sub b)

Article 3.8 Validity period for results

1. The validity period of examinations passed and exemption from examinations is unlimited, unless otherwise specified in Section B.	Legal provision
2. The validity period of a partial examination is limited to the academic year in which it was sat or until the end of the unit of study concerned, as stipulated for the relevant unit of study in Section B. In exceptional circumstances, an examiner may deviate from this; this must be stated on Canvas at the start of the unit of education.	Advice OLC; approval FGV (9.38 sub b)

Article 3.9 Right of inspection and post-examination discussion

1. Within twenty working days after the announcement of the results of a written examination, but at least ten working days before the resit opportunity for that examination, the student can submit a request to review their graded examination.	Advice OLC; approval FGV (7.13 p and q)
2. Students can view the questions and assignments set in the written examination, and the standards applied when assessing the examination, within the period specified in 3.9.1.	Advice OLC; approval FGV (7.13 q)
3. The examiner determines whether the inspection takes place collectively or individually. In all cases, the time and place of the inspection is announced in the course manual or learning environment.	Advice OLC; approval FGV (7.13 q)
4. Students are entitled to feedback on their academic performance. The manner in which this is provided in each unit of education is described in the course manual.	Advice OLC; approval FGV (7.13 p and q)

4. Academic student counselling and study progress**Article 4.1 Administration of study progress and academic student counselling**

1. The faculty board is responsible for the correct registration of the students' study results. After the assessment of a unit of education has been registered, every student has the right to inspect the result for that component and also has a list of the results achieved at their disposal in VU.nl Dashboard.	Advice OLC; approval FGV (7.13 u)
2. Enrolled students are eligible for academic student counselling. Academic student counselling is in any case provided by a. The Student Counsellor b. Student psychologists c. Faculty academic advisers	Advice OLC; approval FGV (7.13 u)

Article 4.2 Facilities for students with a disability or impairment

1. Students with a disability or impairment, can submit a request via VU.nl Dashboard to qualify for one or more special facilities with regard to teaching, practical exercises and examinations. These facilities will accommodate the student's individual disability or impairment as much as possible, but may not alter the quality or degree of difficulty of a unit of education or an examination. In all cases, the student must fulfil the exit qualifications for the study programme.	Advice OLC; approval FGV (7.13 m)
2. The request referred to in the first paragraph must be accompanied by a statement from a doctor or psychologist. If possible, an estimate should be given of the potential impact on the student's study progress. In case of a chronic disability a single (one time) request suffices.	Advice OLC; approval FGV (7.13 m)

3. Students who have been diagnosed with dyslexia must provide a statement from a BIG-, NIP- or NVO-registered professional who is qualified to conduct a psychological evaluation.	Advice OLC; approval FGV (7.13 m)
4. The faculty board, or the person acting on behalf of the faculty board, decides on teaching facilities and facilities regarding logistics. The Examination Board will decide on requests for facilities with regard to examinations.	Advice OLC; approval FGV (7.13 m)
5. In the event of a positive decision in response to a request as referred to in paragraph 1, the student can make an appointment with the academic adviser to discuss the details of the provisions.	Advice OLC; approval FGV (7.13 m)
6. A request for one or more facilities can be refused if it would place a disproportionate burden on the organisation or the resources of the faculty or university were it upheld. Any such refusal will be substantiated.	Advice OLC; approval FGV (7.13 m)
7. If the disability or impairment justifies an extension of the examination time, the responsible person on behalf of the Examination Board will register in SAP this entitlement to an extension. If a disability or impairment justifies other measures to be taken, the academic adviser can take the necessary measures. The student can consult the study monitor to check which facilities have been granted to them.	Advice OLC; approval FGV (7.13 m)
8. The decision as referred to in paragraph 5 may specify a limited validity of the facilities granted.	Advice OLC; approval FGV (7.13 m)

5. Hardship clause

Article 5.1 Hardship clause

In instances not regulated by the Teaching and Examination Regulations or in the event of demonstrable extreme unreasonableness or unfairness, the faculty board responsible for the study programme will decide, unless the matter concerned is the responsibility of the Examination Board.	Advice OLC; approval FGV (9.38 sub b)
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Section B1: Programme-specific section

6. General programme information and characteristics

Article 6.1 Study programme information

1. The programme MSc Artificial Intelligence, CROHO number 66981, is offered on a full-time basis.	Advice OLC; approval FGV (7.13 u)
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Article 6.2 Teaching formats used and modes of assessment

1. The programme uses the teaching formats as specified in the study guide.	Advice OLC; approval FGV (7.13 x)
2. The modes of assessment used per unit of education are specified in the study guide.	Advice OLC; approval FGV (7.13 l)

Article 6.3 Academic student counselling

1. The programme offers the following counselling in addition to the student counselling mentioned in Section A: - Study advisor	Advice OLC; approval FGV (7.13 u)
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7. Further admission requirements

Article 7.1 Intake date(s)

1. The Master's programme starts on 1 September.	Advice OLC, Approval FGV (9.38 sub b)
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Article 7.2 Admission requirements

1. Admission to the Master's programme is possible for an applicant who has obtained a Bachelor's degree at an institution of academic higher education, which demonstrates the following knowledge, understanding and skills: a. Applicants are admissible to the degree programme if they hold a university level Bachelor's degree in Artificial Intelligence. b. Applicants are admissible to the degree programme if they hold a university-level Bachelor's degree in Computer Science or other technical Bachelor's programme, with at least 18 ECTS in AI key area courses. The "AI key areas" mentioned above correspond to the exit qualifications of the VU bachelor AI program, which are based on the nationally agreed KION framework for AI Bachelor and Master programmes, which is the basis for the national accreditation procedure. The 8 key areas from the KION framework are: • (Cognitive) Psychology; • Computational Linguistics; • Context of Artificial Intelligence (History, Philosophy, Ethics); • Intelligent Autonomous Agents and Multi-Agent Systems; • Interaction (Human-Computer Interaction, Communication); • Knowledge Representation and Reasoning; • Machine Learning;	Advice OLC, approval FGV (9.38 sub b)
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• Problem Solving (Search, Decision Making, Optimisation). c. Applicants are admissible to the degree programme if they hold a university level Bachelor's degree in Psychology with a specialization in Cognitive Science, Cognitive Psychology or Neuroscience, including programming skills shown by an obligatory programming test. In addition to the admission requirements there are selection criteria in place, see article 7.3.	
2. Not applicable	Advice OLC, approval FGV (9.38 sub b)
3. Applicants with a Bachelor's degree obtained at an institution outside the Netherlands may be asked for additional methods to prove that they meet the admission requirements.	Advice OLC, approval FGV (9.38 sub b)
4. Not applicable (concerns Dutch language programmes)	Advice OLC, approval FGV (9.38 sub b)
5. Applicants should demonstrate that they have a sufficient level of proficiency in English by meeting at least one of the following standards: - IELTS Academic: an overall score of at least 6.5 plus a minimum score of 6.0 for each subcomponent (Listening, Reading, Writing and Speaking; IELTS test has a validity of 2 years. - TOEFL iBT: an overall score of at least 92 plus a minimum score of: - o Listening: 12 - o Reading: 13 - o Writing: 21 - o Speaking: 18 TOEFL test has a validity of 2 years. - Cambridge Certificate of Proficiency in English (CPE) or Cambridge Certificate of Advanced English (CAE) with an overall score of at least 180. Cambridge tests are valid indefinitely.	Advice OLC, approval FGV (9.38 sub b)
6. Applicants who have completed one of the following meet the English language requirement and therefore are exempted from taking an English language test (as mentioned in the section 5) if: - a secondary education or higher education degree fully taught in English has been completed in Australia, Canada (except Quebec province), Ireland, New Zealand, Singapore, South Africa, the United Kingdom or the United States of America; - a Bachelor's or Master's degree in an English-taught programme accredited by NVAO in the Netherlands has been earned; or - a Bachelor's or Master's degree in an accredited fully English-taught university programme has been earned in a member state of the European Union/ European Economic Area; or - a VWO diploma or equivalent diploma in which the course of English of a comparable level is required has been earned.	Advice OLC, approval FGV (9.38 sub b)
7. The Admission Board will investigate whether the applicant meets the admission requirements.	Advice OLC; approval FGV (9.38 sub b)

Article 7.3 Selection criteria

1. In addition to the admission requirements referred to in Article 7.2, the Faculty	Advice OLC, approval FGV
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Board also sets (at least two of) the following selection criteria: Not applicable.	(9.38 sub b)
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Article 7.4 Pre-Master's programme

1. Applicants with a Bachelor's degree from a university of applied sciences (HBO) or a Bachelor's degree from a research university (WO) who wish to enter the programme but do not fulfil the admission requirements as stipulated in Article 7.2 and the selection criteria as stipulated in article 7.3 can request admission to the pre-Master's programme. (The pre-Master's programme is only available to EER nationals). Article 2 of these regulations does not apply to admission to a bridging or pre-Master's programme. The provisions of sections A and B only apply to the extent that they are described in Article 7.4. Information about the programme from part B2 applies, insofar as it concerns the units of education from the pre-Master's programme.	Advice OLC; approval FGV (9.38 sub b)
2. Applicants must, in addition to paragraph 1 above, also satisfy the following requirements regarding: - Students with a Bachelor's degree of a university of applied sciences (HBO) in a field that corresponds to a sufficient extent with the subject area covered by the Master's programme can request admission to the pre-Master's programme. - Students with a Bachelor's degree from an institution of academic higher education in a field that does not sufficiently correspond with the subject area covered by the Master's programme can request admission to the pre-Master's programme. - A minimum undergraduate GPA of 7.0 (or international equivalent) is required for admission to the pre-Master's programme.	Advice OLC; approval FGV (9.38 sub b)
3. A candidate must demonstrate that they meet the language requirements, as specified in Article 7.2.	Advice OLC; approval FGV (9.38 sub b)
4. The pre-Master's programme has maximum 30 credits (spread out over 1 academic year). The pre-Master's student follows a customized set of modules, which may be comprised of the following modules: - Introduction to Python Programming for AI (XB_0145) - Introduction to Psychology and its Methods (XB_0069) - Logic and Sets for AI (XB_0083) - Data Structures and Algorithms for AI (XB_0043) - Machine Learning (X_400154) - Computational Intelligence (XB_0025) - Intelligent Systems (XB_0031) - Probability and Statistics (XB_0115) - Knowledge and Data (X_400083) - Human Computer Interaction for AI (XB_0144) - Modelling Human Behaviour (XB_0146) - Multi-Agent Systems (XB_0024) The following terms also apply: - If a pre-Master's student completes an individualised pre-Master's programme, this is to be communicated to that student in writing. - The Examination Board can, if the pre-Master's student submits a written request, exempt the student from one or more examinations. - Article 3.5.4 does not apply to pre-Master's students.	Advice OLC; approval FGV (9.38)
5. Evidence that the pre-Master's programme has been completed successfully will	Advice OLC;

entitle the student to admission to the relevant Master's programme in the following academic year. A pre-Master's programme must be completed within one academic year.	approval FGV (9.38 b)
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8. Examinations and results

Article 8.1 Sequence of examinations

1. Students will only be admitted to the final project/thesis if they meet the following conditions: X_400285 Master Project Artificial Intelligence and P_MTHRCSC Master Thesis: Research Project Cognitive Science after obtaining at least 60 ECTS worth of courses from the Master AI.	Advice OLC; approval FGV (7.13 h, s & t)
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Article 8.2 Validity period for results

1. The validity period of the examinations and exemptions from examinations below is limited, as follows: Not applicable.	Advice OLC; approval FGV (7.13 k)
2. A student may request the Examination Board to extend the validity of an exam. If the student's knowledge is demonstrably outdated, or if the student's skills and understanding are demonstrably outdated, the Examination Board may impose a supplementary examination, impose a replacement examination or refuse to extend the period of validity.	Legal provision
3. In situations where a limited period of validity applies, the period of validity of examinations may be extended in the event of extenuating circumstances as stipulated in WHW Article 7.51, paragraph 2, with at least the period of allocated financial assistance specified in WHW Article 7.51, paragraph 1.	Legal provision

Section B2: Programme-specific section – content of programme

9. Programme objectives, tracks/specialisations, exit qualifications and language

Article 9.1 Workload

1. The programme has a workload of 120 EC.	Approval OLC; (7.13 g)
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Article 9.2 Tracks and/or specialisations

1. The programme has the following tracks and/or specialisations: - Main track AI - Cognitive Science - AI for Health	Approval OLC; (7.13 a)
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Article 9.3 Programme objective

1. The programme aims to: provide the student with the knowledge, experience and insights needed to autonomously carry out their professional duties. The programme is designed to prepare the student for further education as a scientific researcher (PhD studies) as well as to offer a solid basis for a career in business at an academic level. Moreover, the programme aims to educate the student to acquire a practical understanding of the position of the field of Artificial Intelligence within a broad scientific, philosophical and societal context. Students who want to take the Master's programme in Artificial Intelligence are expected to possess basic knowledge and skills in the field at Bachelor's level, including skills and attitudes of a general academic nature. The aim of the Master's programme is to extend and enhance the knowledge and skills acquired at Bachelor's level and, by concentrating on a specific area within the field of Artificial Intelligence, to lead the student towards the frontiers of design and application or towards some of the major research issues in their chosen specialization.	Advice OLC; (7.13 a)
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Article 9.4 Exit qualifications

1. At all events, a graduate of the study programme will have: - knowledge and understanding in the field of Artificial Intelligence. The objectives of the master can be specified into final qualifications. To comply with international standards these qualifications are presented below in terms of the Dublin descriptors for the master's profile. A. Knowledge and Understanding The master demonstrates knowledge and understanding in a field of study that builds upon and supersedes their bachelor's degree. Knowledge, understanding, and abilities are typically at a level at which the master is able to formulate a feasible research plan in one's own specialisation. We distinguish three levels of qualification: a basic understanding, corresponding to the minimal level of knowledge that is expected of a Bachelor student, an advanced understanding, meaning students must have in-depth knowledge about a topic that they could easily develop to become a specialist, and specialist knowledge, meaning	Approval OLC (7.13)
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students are highly skilled (and specialised) in the key area in question.

Qualifications:

1. Basic understanding of all (8) key areas of Artificial Intelligence. The 8 key areas

are:

- Cognitive Science;
- Computational Linguistics;
- Context of Artificial Intelligence (History, Philosophy, Ethics);
- Intelligent Autonomous Agents and Multi-Agent Systems;
- Interaction (Perception, Human-Computer Interaction, Communication);
- Knowledge Representation and Reasoning;
- Machine Learning;
- Problem Solving (Search, Decision Making, Optimisation).

2. An advanced understanding in some of the key areas of Artificial Intelligence;

3. Specialist knowledge of at least one of the key areas in Artificial Intelligence, up to a level that the master can appreciate the forefront of research in that field;

4. Has a solid academic knowledge of and insight in the field of hybrid artificial intelligence, including the required background knowledge of socially aware artificial intelligence, ambient intelligence, and ubiquitous computing, which builds upon and goes beyond the level of a Bachelor degree in any of those disciplines;

5. Has basic knowledge of physiological, psychological, or social aspects of human functioning that can be exploited in socially aware artificially Intelligent systems.

B. Applying Knowledge and Understanding

Masters can apply their knowledge and understanding in a manner that indicates a scientific approach to their work or vocation. They are able to handle complex and ill-defined problems for which it is not a priori known if there is an appropriate solution, how to acquire the necessary information to solve the sub-problems involved, and for which there is no standard or reliable route to the solution.

Qualifications:

1. The ability to formulate a project plan for an open problem in a field related to Artificial Intelligence in general and the own specialisation in particular.

2. The ability to determine the feasibility of a proposal to lead to a solution or design as specified.

3. The ability to contribute autonomously and with minimal supervision to an interdisciplinary project team and to profit from the abilities, the knowledge, and the contributions of other team members.

4. The ability to choose, apply, formulate, and validate models, theories, hypotheses, and ideas from the key areas of Artificial Intelligence.

5. The ability to submit an argument in the exact sciences (or humanities) to critical appraisal and to incorporate its essence in the solution of Artificial

Intelligence problems. 6. The ability to translate academic knowledge and expertise into social, professional, economic, and ethical contexts. 7. Awareness of, and responsibility concerning, the ethical, normative and social consequences of developments in science and technology, particularly resulting from original contributions. C. Making Judgments The master is able to formulate an opinion or course of action on the basis of incomplete, limited and in part unreliable information. Qualifications: 1. Competence in the search and critical processing of all sources of information that help to solve an open and ill-defined problem; 2. The ability to demonstrate a professional attitude conform the (international) scientific conduct in Artificial Intelligence; 3. The ability to provide and receive academic criticism conform the standards in one specialism of Artificial Intelligence-research; 4. The ability to formulate an opinion and to make judgments that include social and ethical responsibilities related to the application of one's own contributions; 5. The master is able to judge the quality of his or her work or the work of others from scientific literature. D. Communication The master can communicate information, ideas, problems and solutions to audiences of specialists in (other) research areas and to a general audience. Qualifications: The master has academically appropriate communicative skills; s/he can: 1. Communicate original ideas effectively in written form; 2. Make effective oral presentations, both formally and informally, to a wide range of audiences; 3. Understand and offer constructive critiques of the presentations of others. E. Learning Skills The master has developed those learning skills that are necessary for a successful further career at the highest professional level. The master is able to detect missing knowledge and abilities and to deal with them appropriately. Qualifications: 1. Being able to reflect upon one's competences and knowledge and, if necessary, being able to take the appropriate corrective action; 2. The ability to follow current (scientific) developments related to the professional environment; 3. Showing an active attitude towards continued learning throughout a professional career.	
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2. a) For the Main Track AI, please refer to the provisions in article 9.4 paragraph 1. b) Without prejudice to the provisions of paragraph 1, a graduate of the track Cognitive Science will have the following knowledge and understanding in the field of Cognitive Science: A. Knowledge and Understanding 1. Has advanced understanding of Cognitive Science; 2. Has knowledge of the experimental methods and findings from research into the cognitive psychology of behaviour; B. Applying Knowledge and Understanding 1. Can apply empirical methods to improve the understanding of neurobiological processes and phenomena; 2. Is capable of modelling behaviour to create opportunities for simulation and further analysis, exploiting the potential and limits of various representations, coupled with studies of computational mechanisms c) Without prejudice to the provisions of paragraph 1, a graduate of the track AI for Health will have the following knowledge and understanding in the field of AI for Health: A. Knowledge and Understanding 1. Has basic understanding of medical informatics 2. Has advance understanding of knowledge on AI techniques applied in the health domain B. Applying knowledge and understanding 1. Can apply AI techniques on medical knowledge and data, and is aware of strength and weaknesses of those methods. 2. At least knowledge applied on two specific tasks in the health domain, for instance natural language processing on medical data, medical image recognition, prediction, diagnosis.	Approval OLC (7.13 b)
3. Language proficiency may be taken into account in the assessment of examinations.	Approval OLC (7.13 c)

Article 9.5 Language of instruction

1. The language of instruction is English.	Approval OLC (9.18)
2. The 'Gedragsscode vreemde taal' (Code of conduct for foreign languages) applies.	VU policy

10. Curriculum structure

Article 10.1 Composition of the programme

1. The programme comprises at least a package of compulsory components and an	Ordinance CvB, see Appendix III
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individual Master's thesis or academic work placement.	
2. Additionally the programme can offer: - Practical exercises; - Electives	Advice OLC (7.13 a)
3. Units of education are categorised as specialised (400), research-oriented (500) and highly specialised (600) level.	Ordinance CvB, see Appendix III

Article 10.2 Compulsory units of education

A detailed description per unit of education can be found in the Study Guide.

Unit of education	course code	nr of EC	level	Advice OLC; (7.13 a)
Evolutionary Computing	X_400111	6	400	
Multi-Agent Systems	XM_0052	6	400	
Knowledge Representation	XM_0059	6	400	
Deep Learning	XM_0083	6	500	
AI and Society	XM_0075	6	400	
Experimental Design and Data Analysis	X_405078	6	400	
Natural Language Processing	XM_0121	6	400	
<i>Constrained Choice (compulsory at least 1 course)</i>				
Cognitive Psychology and its Application ¹	XM_40010	6	400	
Skills for AI ¹	XM_0077	6	400	
<i>Constrained Choice Machine Learning and Intelligent Systems (compulsory at least 1 course)</i>				
Socially Intelligent Robotics	XM_0074	6	400	
Data Mining Techniques	X_400108	6	400	
Machine Learning for the Quantified Self	XM_40012	6	500	
<u>Main specialisation AI</u>				
Master Project AI	X_400285	30	600	
<u>Specialisation Cognitive Science</u>				
Seminar Cognitive Neuroscience AI	P_MSEMCNS_AI	6	500	
Neural Models of Cognitive Processes AI	P_NEUMOD_AI	6	400	
Brain Imaging	P_MBRIMAG_AI	6	400	
<i>Constrained Choice Final Project (choose 1 course)</i>				
Master Thesis: Research Project Cognitive Science	P_MTHRCSC	30	600	
Master Project AI	X_400285	30	600	
<u>Specialisation AI for Health</u>				
Medical Informatics Basics	XMU_0037	6	500	
AI for Medical Imaging	XMU_0045	6	500	
Medical AI	XMU_0038	6	500	
Machine Learning and Reasoning for Health	XM_0102	6	500	
Master Project AI	X_400285	30	600	

Article 10.3 Elective units of education

1. The student can take one or more of the following electives without prior consent from the Examination Board:				Advice OLC; (7.13 a)
Name of unit of education	course code	nr of EC	Level	
Artificial Intelligence (Deepening)				
Advanced Machine Learning	XM_0010	6	400	
Knowledge Organization	X_405065	6	500	
Deep Learning	XM_0083	6	500	
Dynamic Programming and Reinforcement Learning	XM_0093	6	400	
Machine Learning and Reasoning for Health	XM_0102	6	500	
The Social Web	X_405086	6	400	
Learning Machines	XM_0061	6	500	
Machine Learning for Graphs	XM_0119	6	600	
Project Reinforcement Learning	XM_0120	6	500	
Knowledge Graphs and Semantic Technologies	XM_0147	6	400	
Entrepreneurship in Analytics and AI	XM_0090	6	400	
Advanced Logic	X_405048	6	500	
Applications of Model Logic for AI	XM_0082	6	500	
Data Mining Techniques	X_400108	6	400	
Machine Learning for Quantified Self	XM_40012	6	500	
Language Technology				
Subjectivity Mining	L_AAMPLIN018	6	500	
Machine Learning for NLP	L_AAMPLIN024	6	500	
Conversational AI and Robots	L_AAMPLIN041	6	500	
Language as Data	L_PAMATLW001	6	400	
Applied Text Mining 1: Methods	L_PAMATLW004	6	400	
Advanced NLP	L_AAMPLIN035	6	400	
Cognitive Science				
Aging and Age related disorders	P_MAGEDIS	6	400	
Seminar Cognitive Neuroscience	P_MSEMCNS_AI	6	500	
Neural Models of Cognitive Processes	P_NEUMOD_AI	6	400	
Brain Imaging	P_MBRIMAG_AI	6	400	
Memory and Memory Disorders	P_MMEMORY	6	400	
Cognitive Psychology and its Applications	XM_40010	6	400	
Social Robotics				
Essentials of Media Psychology	S_EMP	6	400	
Conversational AI and Robots	L_AAMPLIN041	6	500	
Social Robotics	S_SR	6	600	
Human-Interactive Agent Learning	XM_0146	6	500	
Bioinformatics				
Fundamentals of Bioinformatics	X_405052	6	400	
Algorithms in Sequence Analysis	X_405050	6	600	

Structural Bioinformatics	X_405019	6	500
Bioinformatics for Translational Medicine	X_405092	6	500
<i>Health Sciences</i>			
Health Psychology	AM_470730	6	400
Health Promotion and Disease Prevention	AM_470811	6	500
Prevention of Mental Health Problems	AM_470840	6	400
<i>Other electives</i>			
History of digital cultures	XM_0134	6	400
Secure and Trustworthy Machine Learning	XM_0179	6	500
Digital Business Ecosystems and Platforms	XM_0176	6	400
ICT for the Global South	XM_0142	6	400
Inclusive ICT	XM_0177	6	400
AI for Security	XM_0178	6	400
2. If the student wishes to take a different unit of education than listed, permission must be obtained in writing from the Examinations Board in advance. - Students can select courses from the MSc AI at the UvA. If it is not possible to register for these courses directly via the UvA, please contact the Programme Director. Please note that there is a limited capacity for each course. By default the UvA course will count as an extra-curricular course. However, if you want the course to count as an elective, permission must be obtained in writing from the Examinations Board. - Students may take Programming courses on bachelor level to improve their programming skills. A bachelor level programming course will be considered extracurricular and will not count towards the MSc AI programme.			

¹ Students with an Artificial Intelligence/Computer Science bachelordegree should choose XM_40010 Cognitive psychology and its application. Other students should choose the course XM_0077 Skills for AI.

Article 10.4 Practical exercise

Not applicable

Article 10.5 Participation in practical training and tutorials

1. In the case of practical exercises, there may be attendance requirements. For details on attendance requirements, please refer to the study guide of the relevant unit of study.	Approval OLC (7.13 d)
2. In the case of tutorials, there may be attendance requirements. For details on attendance requirements, please refer to the study guide of the relevant unit of study.	Approval OLC (7.13 d)
3. For thesis and internship, the programme applies the guidelines as stipulated in the Thesis and Placement Regulations.	Approval OLC (7.13 d)

11. Evaluation and transitional provisions

Article 11.1 Evaluation of the programme

1. The education provided in this programme is evaluated in accordance with the document 'Kwaliteitszorg Onderwijs BETA'.	Approval OLC (7.13 a1)
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Article 11.2 Transitional provisions

By way of departure from the Teaching and Examination Regulations currently in force, the following transitional provisions apply for students who started the programme under a previous set of Teaching and Examination Regulations: Transitional Provisions: - The course code and course name XM_0137 Experimental Design and Data Analysis for AI has been removed, and the course X_405078 Experimental Design and Data Analysis has been added to the curriculum instead. Students who have not taken XM_0137 Experimental Design and Data Analysis for AI, should take _405078 Experimental Design and Data Analysis instead. Curriculum changes: - The constrained choice group name has changed from “M AI Machine Learning constrained choice” to “M AI Machine Learning and Intelligent Systems constrained choice”. - The course XM_0074 Socially Intelligent Robotics has changed from a mandatory course to a constrained choice in the group “M AI Machine Learning and Intelligent Systems constrained choice”. - The course XM_0083 Deep Learning has changed from a constrained choice to a mandatory course. - The course XM_40020 Web Data Processing Systems has been removed from the elective group “other electives”. - The course XM_0179 Secure and Trustworthy Machine Learning has been introduced as a new course in the elective group “other electives”. - The course XM_0176 Digital Business Ecosystems and Platforms has been introduced as a new course in the elective group “other electives”. - The course XM_0178 AI for Security has been introduced as a new course in the elective group “other electives”. - The course code and course name XM_0143 ICT for the Global North has been changed to XM_0177 Inclusive ICT.	Advice OLC (7.13 a)
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Approval of the Programme Committee of the curriculum structure (submitted via UAS), on 12/12/2024.

Advice and/or approval by the Programme Committee (with the exception of the curriculum structure), on 26/09/2025 (version 2)

Approved by the Faculty Joint Assembly, on 25/07/2025.

Adopted by the board of the Faculty of Science on 29/09/2025 (version 2).

Appendix I

Overview of articles that must be included in the OER

Based on Article 7.13, paragraph 2 and Article 7.30b, paragraph 2 of the WHW.

Section A: Faculty section

2. Study programme structure	
Article 2.1 Structure of academic year and units of education	7.13 paragraph 2 sub e
3. Assessment and examination	
Article 3.2 Type of examination	7.13 paragraph 2 sub h, l, j
Article 3.3 Oral examinations	7.13 paragraph 2 sub l, n
Article 3.4 Determining and announcing results	7.13 paragraph 2 sub o
Article 3.5 Examination opportunities	7.13 paragraph 2 sub h, j
Article 3.7 Exemption	7.13 paragraph 2 sub r
Article 3.8 Validity period for results	7.13 paragraph 2 sub k
Article 3.9 Right of inspection and post-examination discussion	7.13 paragraph 2 sub p, q
4. Academic student counselling and study progress	
Article 4.1 Administration of study progress and academic student counselling	7.13 paragraph 2 sub u
Article 4.2 Facilities for students with a disability	7.13 paragraph 2 sub m

Section B1: Programme specific – general provisions

6. General programme information and characteristics	
Article 6.1 Study programme information	7.13 paragraph 2 sub i, r
Article 6.2 Teaching formats used and modes of assessment	7.13 paragraph 2 sub l, x
[keuze:] Article 6.3 Academic student counselling	7.13 paragraph 2 sub u
7. Further admission requirements	
Article 7.2 Admission requirements	7.30b paragraph 1
Article 7.3 Selection criteria	7.30b paragraphs 2 & 5
Article 7.4 Pre-Master's programme	7.57i section 1
8. Examinations and results	
Article 8.1 Sequence of examinations	7.13 paragraph 2 sub h, s, t
[option 1:] Article 8.2 Validity period for results	7.13 paragraph 2 sub k
[option 2:] Article 8.2 Validity period for results	7.13 paragraph 2 sub k

Section B2: Programme-specific section – content of programme

9. Programme objectives, tracks/specialisations, exit qualifications and language	
Article 9.1 Workload	7.13 paragraph 2 sub g
Article 9.2 Tracks and/or specialisations	7.13 paragraph 2 sub a
Article 9.3 Programme objective	7.13 paragraph 2 sub a
Article 9.4 Exit qualifications	7.13 paragraph 2 sub b, c
Article 9.5 Language of instruction	9.18 (<i>implementation expected in 2020</i>)
10. Curriculum structure	
Article 10.1 Composition of the programme	7.13 paragraph 2 sub a
Article 10.2 Compulsory units of education	7.13 paragraph 2 sub a
[Keuze:] Article 10.3 Elective units of education	7.13 paragraph 2 sub a
[Keuze:] Article 10.4 Practical exercise	7.13 paragraph 2 sub d
Article 10.5 Participation in practical training and tutorials	7.13 paragraph 2 sub d
11. Evaluation and transitional provisions	
Article 11.1 Evaluation of the programme	7.13 paragraph 2 sub a1
Article 11.2 Transitional provisions	7.13 paragraph 2 sub a

Appendix II

Overview of advisory and approval rights of Programme Committees (OLC) and Faculty Joint Assembly (FGV)

Article 7.13, paragraph 2, of the Higher Education and Research Act	FGV		OpIC	
	I	A	I	A
a. the content of the programme and the associated examinations				
a1. the manner in which teaching and education in the relevant programme are evaluated				
b. the content of the specialisations offered as part of the programme				
c. the programme's final attainment levels with regard to the knowledge, understanding and skills				
d. where applicable, the design of practical exercises				
e. the workload of the programme and of each of its constituent units of education				
f. the detailed rules referred to in Article 7.8b, sixth paragraph, and Article 7.9, fifth paragraph (recommendation on continuation of studies)				
g. the Master's programmes to which Article 7.4a, eighth paragraph, applies (elevated workload)				
h. the number and sequence of examinations and the times at which these can be taken				
i. the full-time, part-time or work-study structure of the programme				
j. where necessary, the order in which students can take the examinations and the final examinations for Bachelor's and Master's programmes, as well as the timing of and number of opportunities				
k. where necessary, the period of validity for pass grades awarded for examinations, notwithstanding the authority of the Examination Board to extend this period of validity				
l. whether examinations are administered in oral, written or another form, notwithstanding the authority of the Examination Board to decide otherwise				
m. the way in which students with a disability or chronic health condition are given a reasonable opportunity to take the examinations				
n. the public nature of oral examinations, subject to the right of the Examination Board to determine otherwise in special cases				
o. the period within which the results of an examination must be announced, together with details of whether this period can be altered and if so in what way				
p. the way in which and the period within which students who have taken an examination are given the opportunity to inspect their marked work				
q. the way in which and the period within which information can be provided about the questions asked and exercises given in the framework of a written examination and about the standards used for assessment				
r. the grounds on which the Board of Examiners may grant exemptions from taking one or more examinations on the basis of examinations and final examinations for Bachelor's and Master's programmes previously completed in higher education, or on the basis of knowledge or skills acquired outside higher education				
s. where necessary, the stipulation that students must pass certain examinations as a condition for admission to other examinations				
t. where necessary, the obligation to take part in certain practical exercises with a view to admission to the examination in question, subject to the authority of the Examination Board to grant exemption from this obligation, with or without the imposition of alternative requirements				
u. the monitoring of academic progress and individual student support and guidance				
v. where applicable, the manner in which students are selected for a special track within a programme as referred to in Article 7.9b (excellence track within a programme)				
x. the actual design of the education provided				
<i>All other matters that are regulated in the Academic and Examination Regulations but which are not mentioned as such in Article 7.13 of the Higher Education and Research Act under points a to x.</i>				

The lettering corresponds to the lettering of Article 7.13 section 2 of the WHW

Abbreviations used:

FGV: Faculty Joint Assembly
 OpIC: Programme Committee
 I: right of approval
 A: right of advice

Appendix III

Ordinances of VU Executive Board (CvB) and Binding Master's Guidelines

Section A, article:	Concerns:	CvB ordinance / guideline
2.1.1, 2.1.2	Year planning two semesters 8-8-4 (uniform year calendar VU-UvA)	29-9-2008 (period 2009-2015) 22-05-2014 (period 2016-2025)
2.1.3, 2.1.4	Units of education	Bachelor's and Master's education guidelines included in model TER, revised on 2 July 2019
3.1	Signing up for education and examinations	CvB ordinance 17-11-2020, prior consent of USC.
3.4.1	Determination and publication of the results (1) Grading deadline exams ten working days (2) Theses twenty working days	(1) Bachelor's guideline included in model TER, revised on 2 July 2019 (2) Quality demand 11 from the VU-wide assessment policy, CvB ordinance 15-05-2012, approval GV 28-02-2013
3.5.1	Two possibilities to take examinations per year	Bachelor's and Master's education guidelines included in model TER, revised on 2 July 2019
3.5.2	Resit: most recent grade is valid, resit allowed in case of pass grade	Taken from the UvA guidelines, as part of the harmonisation, CvB ordinance 24-02-2014
3.5.4	One-time extra resit in relation to examination requirement	Included in (prior) model OER 16-17 following a request from committee O&O and adopted by CvB op 27-10-2015
3.6	Grades	CvB ordinance 30-09-2010, prior consent USC. As a result of harmonisation UvA, the guideline: 5.5 is a pass, has been added. CvB ordinance 24-02-2014.
Section B1, article:	Concerns:	CvB ordinance / guideline
7.2	Admission criteria	Bachelor's and Master's education guidelines included in model TER, revised on 2 July 2019
7.3	Selection criteria	Bachelor's and Master's education guidelines included in model TER, revised on 2 July 2019
Section B2, article:	Concerns:	CvB ordinance / guideline
10.1.1	Composition programme	Bachelor's and Master's education guidelines included in model TER, revised on 2 July 2019
10.1.3	Categorisation of units	Bachelor's and Master's education guidelines included in model TER, revised on 2 July 2019

Appendix IV

Higher Education and Research (Implementation) Act

1. The extenuating personal circumstances referred to in Article 7.8b, paragraph 3 and 7.9, paragraph 3 of the Act (WHW) are limited to:

- a. illness of the person concerned,
- b. physical, sensory or other impairment of the person concerned,
- c. pregnancy of the person concerned,
- d. extenuating family circumstances,
- e. membership, including the chairmanship of:
 - 1. universities: the university council, faculty council, the body established under the participation regulation referred to in Article 9.30, paragraph 3, or Article 9.51, paragraph 2, of the Act, the programme management or the programme committee, or membership on the board of a foundation whose bylaws allow for the exploitation of facilities belonging to the student services, or an equivalent body with regard to its activities in the opinion of the board of the institution,
 - 2. universities of applied sciences: the participation council, district council, student committee or programme committee,
- f. other circumstances to be designated by the board of the institution in the regulation as referred to in Article 7.8b, paragraph 6, and Article 7.9, paragraph 5, of the Act in which the person concerned engages in activities within the framework of the organisation and the administration of the affairs of the institution,
- g. membership on the board of a student organisation of a certain size with full legal capacity, or a similar organisation of a certain size, whose primary task regards general societal interest and which actually develops activities for this purpose,
- h. other personal circumstances set out in the Teaching and Examination Regulations as referred to in Article 7.13 of the Act, pursuant to Article 7.13, paragraph 2, clause f of the Act,
- i. personal circumstances other than those referred to in a – h above which, if overlooked by the governing bodies of the institution, would lead to an obviously unfair outcome.

2 The institutional board may, for the purposes of the first paragraph, part g, establish specific rules regarding the maximum number of eligible board members per organisation per academic year, as well as the eligible administrative offices.