

Teaching and Examination Regulations (TER)

Faculty of Science

Masterprogramme in Artificial Intelligence

Academic year: 2019-2020

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Section A: Faculty Section

1. General provisions

Article 1.1 Applicability of the Regulations

| These Regulations apply to anyone enrolled for the programme, irrespective of the academic year in which the student was first enrolled for the programme. These Regulations apply to the teaching and examinations for the following Master's degree programmes: Artificial Intelligence Bioinformatics and System Biology Biomedical Sciences Business Analytics Computer Science Drug Discovery and Safety Earth Sciences Ecology Environment and Resource Management Global Health (research) Health Sciences Hydrology Information Sciences Management, Policy Analysis and Entrepreneurship in the Health and Life Sciences Methematics Methematics Methematics Sciences Business and Innovation Stochastics and Financial Mathematics | Advice OLC, approval FGV (9.38 ub b) |
|---|---|
| 2. These Regulations enter into force with effect from 1 September 2019. | Advice OLC, approval FGV (9.38 ub 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. CvB: | the Executive Board of Vrije Universiteit Amsterdam. |
| c. Double degree programme | joint programme in the context of cooperation between Vrije Unviersiteit |
| | Amsterdam and the educational institution within and outside the EU, as to gain a |
| | double university degree; of the VU and the educational institution concerned; |
| | though not being the same as a 'joint degree programme' according to the art. 7.3c |
| | WHW'; |
| d. EC (European Credit): | an EC credit with a workload of 28 hours of study; |
| e. educational component: | a unit of study of the programme within the meaning of the WHW; |
| f. examination: | the final examination of the Master's programme; |
| g. exemption | Exemption from an examination/ practical/ fieldwork based on an earlier |
| | successfully completed examination, or knowledge / skills of a similar content, |
| | level and scope gained outside higher education; |
| h. FGV: | Faculty joint assembly – assembly of the faculty student council and faculty staff |
| | |



| | council; |
|---------------------------------------|---|
| i. interim examination: | an assessment of the student's knowledge, understanding and skills relating to a |
| | course component. The assessment is expressed in terms of a final mark. An |
| | interim examination may consist of one or more partial examinations. A resit |
| | |
| • • • | always covers the same material as the original interim examination; |
| j. 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; |
| k. OLC: | programme committee; |
| l. period: | a part of a semester; |
| m. practical exercise: | the 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; |
| n. premaster student | those who enroll in a premaster programme; |
| o. Programme: | the totality and cohesion of the course components, teaching activities/methods, |
| 0. i logramme. | contact hours, testing and examination methods and recommended literature; |
| - CAD/CLM. | - |
| p. SAP/SLM: | the student information system (<i>Student Lifecycle Management</i>); |
| q. semester: | the first (September - January) or second half (February - August) of an |
| | academic year; |
| r. 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://www.vu.nl/studiegids |
| s. subject | see 'educational component'; |
| t. substituting course/educational | see under d (double degree programme). A course obtained at the |
| component | educational institute, within the context of cooperation, that is mentioned in the |
| I I I I I I I I I I I I I I I I I I I | diploma supplement as such; not being an 'exemption'. |
| u, thesis/ internship work placeme | nt a component comprising research into the literature and/or contributing to |
| | scientific research, always resulting in a written report; |
| v. university: | Vrije Universiteit Amsterdam; |
| - | - |
| w. WHW: | the Dutch Higher Education and Research Act (<i>Wet op het Hoger Onderwijs en</i> |
| | Wetenschappelijk Onderzoek); |
| x. workload: | the workload of the unit of study to which an interim 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 credits. |

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

2. Study programme structure

Article 2.1 Structure of academic year and educational components

| 1. The study programme will be offered in a year divided into two semesters. | Ordinance CvB, see appendix 3 |
|---|----------------------------------|
| 2. Every semester consists of three consecutive periods of eight, eight and four weeks. | Ordinance CvB, see appendix 3 |
| 3. An educational component comprises 6 EC or a multiple thereof. | Ordinance CvB, |



| | see appendix 3 |
|--|----------------|
| 4. By way of exception to paragraph 3, Section B may stipulate that a unit of study | Ordinance CvB, |
| comprises 3 EC or a multiple thereof. The Faculty Board requests permission from the | see appendix 3 |
| Executive Board. | |

Article 2.2 Refusal or termination of registration / (iudicium abeundi)

| 1. Pursuant to the provisions of Article 7.42a of the Act, the Faculty Board or the Examination Board may, in exceptional circumstances, request the Executive Board to terminate or refuse a student's registration on a programme. This may be the case if the student's conduct or statements demonstrate his or her unsuitability to work in the relevant field or discipline, or to take part in the programme's practical training component. | WHW |
|---|-----|
| 2. If a student is suspected of being unsuitable as described in paragraph 1, the Examination Board or the Faculty Board will examine the case, and the student will be informed of this immediately. The Examination Board or the Faculty Board will only issue a recommendation after careful consideration of the interests involved and following a hearing with the student concerned. | WHW |

3. Assessment and Examination

Article 3.1 Signing up for education and interim examinations

| 1. | Every student must sign up to participate in the educational components of the programme, the examinations and resits. The procedure for signing up is described in an | Ordinance CvB, see appendix 3 |
|----|---|---|
| | annex to the Student Charter. | |
| 2. | Signing up may only take place in the designated periods. | Ordinance CvB, see appendix 3 |
| 3. | If a student does not pass the examination and the resit of a component, he/ she is obliged to take the whole component again. This rule does not apply to practical exercises and programmes that make use of component marks that retain their validity. For further regulations see Section B of the programme involved. | Advice OLC, approval FGV (7.13 x) |

Article 3.2 Type of examination

| 1. At the student's request, the Examination Board may permit a different form of interim examination than that stipulated in the course catalogue. If applicable, more detailed regulations on this are included in the Rules and Guidelines for the Examination Board. | Advice OLC, Approval FGV (7.13 l) |
|---|---|
| 2. In an educational component is no longer offered in the academic year following its termination, at least one opportunity will be provided to sit the interim examination(s) or parts thereof and a transitional arrangement will be included in the programme-specific section for the subsequent period. | Advice OLC, approval FGV (7.13 j) |

Article 3.3 Oral interim examinations

| 1. | An oral assessment is public unless the Examinations Board on request determines otherwise. | Advice OLC; approval FGV (7.13 l and n) |
|----|---|---|
| 2. | An oral examination will be taken in the presence of a second examiner. | Advice OLC, approval FGV (art. 9.38 par. b) |

Article 3.4 Determining and announcing results

| 1. The examiner determines the result of a written interim examination as soon as possible, | Ordinance CvB, |
|---|----------------|
| but at the latest within fifteen working days. By way of departure from that stipulated in | see appendix 3 |
| the first clause, the marking deadline for theses, internships / work placements and final | |
| assignments is no longer than twenty working days. 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. | |
| | 1 |





| 2. | a. The examiner determines the result (i.e. mark) of an oral examination as soon as possible, though within one working day, after the examination has finished and informs the student accordingly. The third clause of the first paragraph applies.b. The examiner determines the result of an interim examination no later than five working days before the next (interim) examination will be held. | Advice OLC; approval FGV (7.13 o) |
|----|---|---|
| 3. | In the case of alternative forms of 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) |
| 4 | A student can submit a request for reassessment to the examiner. A request for reassessment does not affect the time period for lodging an appeal. | Advice OLC; approval FGV (9.38 sub b) |
| 5. | Together with the result of an examination, the student's attention will also be drawn to their right to inspect the assessed work and have a post-examination discussion as stipulated in Art. 3.9, as well as his/her option to lodge a complaint before the Examination Board, and if necessary, to appeal to the Examinations Appeals Board (in Dutch: COBEX). | |

Article 3.5 Examination opportunities

| 1. a. Per academic year, two opportunities to take examinations per educational | Ordinance CvB, |
|--|--------------------------|
| component will be offered. | see appendix 3 |
| b. The options for retaking practical components, work placements and theses are detailed | |
| in the relevant work placement manual, teaching regulations or graduation regulations. | |
| 2. The most recent mark will apply in the event of a resit. A retake is allowed for both | Ordinance CvB, |
| passed and failed units of study. | see appendix 3 |
| 3. The resit for a (partial) interim examination must not take place within ten working | Advice OLC; |
| days of the announcement of the result of the (partial) examination being resat. | approval FGV (7.13 j) |
| 4. The Examination Board may allow a student an extra opportunity to sit an | Ordinance CvB, |
| examination if that student: | see appendix 3 |
| a) is lacking only those credits to qualify for his or her degree; | |
| 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 assignments 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. | |

Article 3.6 Marks

| 1. Marks are given on a scale from 1 to 10 with no more than one decimal point. | | | | Ordinance CvB, see appendix 3 | |
|---|------|-------|----------------------------------|----------------------------------|--|
| 2. The final marks are given in whole or half points. | | | | Ordinance CvB, see appendix 3 | |
| 3. Final marks between 5 and 6 will be rounded off to whole marks: up to 5.5 rounded down; from 5.5 rounded up. To pass a course, a 6 or higher is required.In case the examination of a component consists of two or more parts, each of which are graded separately, the (weighted) mean of these marks (meaning: the final mark) must be rounded off using the following table: | | | Ordinance CvB, see appendix 3 | | |
| | From | Up to | Grade |] | |
| | 1,00 | 1,25 | 1 |] | |
| | 1,25 | 1,75 | 1,5 | 1 | |
| | 1,75 | 2,25 | 2,0 | 1 | |
| | 2,25 | 2,75 | 2,5 |] | |



| | 2,75 | 3,25 | 3,0 | | |
|--|----------------|----------------------|---------------------|-----------------|----------------------------------|
| | 3,25 | 3,75 | 3,5 | | |
| | 3,75 | 4,25 | 4,0 | | |
| | 4,25 | 4,75 | 4,5 | | |
| | 4,75 | 5,50 | 5,0 | | |
| | 5,50 | 6,25 | 6,0 | | |
| | 6,25 | 6,75 | 6,5 | | |
| | 6,75 | 7,25 | 7,0 | | |
| | 7,25 | 7,75 | 7,5 | | |
| | 7,75 | 8,25 | 8,0 | | |
| | 8,25 | 8,75 | 8,5 | | |
| | 8,75 | 9,25 | 9,0 | | |
| | 9,25 | 9,75 | 9,5 | | |
| | 9,75 | 10,0 | 10 | 1 | |
| 4. The Examination Board can allow to use symbols rather than numbers, such as: pass, fail, (un)satisfactory, good, VRS (exemption). In case a student does not take part in | | | | | Ordinance CvB, see appendix 3 |
| any (interim) exam | ination, the e | examiner will regist | ter the mark 'ns' (| (c.q. no show). | |

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 the student: a) has passed a course component of a university or higher professional education programme that is equivalent in terms of content and level; b) has demonstrated through his/her work and/or professional experience that he/she has sufficient knowledge and skills with regard to the relevant course component. The Examination Board will make a decision within six weeks after receiving the | Advice OLC; approval FGV (7.13 r) |
|----|--|---|
| 2. | request. The Master's thesis, the final work placement (c.q. internship) and the final project (c.q. final paper) are excluded from this exemption possibility. A maximum of 18 EC for a one one-year master programme and 36 EC for a one two- year master programme can be accumulated through granted exemption. The substituting courses (educational components) are not included. | Advice OLC; approval FGV (9.38 sub b) Advice OLC, approval FGV (art. 7.13 par. 2, under r WHW jo art. 9.38 par. b) |

Article 3.8 Validity period for results

| 1. | The validity period of interim examinations passed and exemption from interim | WHW |
|----|--|---|
| | examinations is unlimited, unless otherwise specified in Section B. | |
| 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. | Advice OLC; approval FGV (9.38 sub b) |

Article 3.9 Right of inspection and post-examination discussion

| 1. For twenty working days after the announcement of the results of a written interim | Advice OLC; |
|---|---|
| examination, the student can, on request, inspect his or her assessed work, the questions | approval FGV |
| and assignments set in it, as well as the standards applied for marking. | (7.13 p en q) |
| The place and time referred to in the previous clause will be announced at the time of the | |
| interim examination on VUnet or Canvas. | |
| If a collective post-examination discussion has been organized, individual post- examination discussions will be held only if the student has attended the collective | Advice OLC; approval FGV (7.13 q) |
| | |



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| discussion or if the student was unable to attend the collective discussion through no fault of his or her own. | |
|---|--|
| 3. Students who meet the requirements stipulated in paragraph 1 can submit a request for an individual post-examination discussion to the relevant examiner. The discussion shall take place at a time and location to be determined by the examiner. | Advice OLC; approval FGV (7.13 p en q) |

Article 3.10 Fraud and plagiarism

| 1. The provisions of the Rules and Guidelines for the Examination Board apply in full. | Ordinance CvB |
|--|---------------|
| 2. Electronic detection software programmes may be used to detect plagiarism in texts. | Ordinance CvB |
| In submitting a text, the student implicitly consents to the text being saved in the | |
| database of the detection programme concerned. | |

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 an educational component has been registered, every student has | Advice OLC; approval FGV |
|----|--|-----------------------------|
| | the right to inspect the result for that component and also has a list of the results achieved | (7.13 u) |
| | at his or her disposal in VUnet. | |
| 2. | Enrolled students are eligible for academic student counselling. Academic student | Advice OLC; |
| | counselling is in any case provided by: | approval FGV (7.13 u) |
| | The Student General Counselling Service | ()110 u) |
| | . Student psychologists | |
| c. | Faculty academic advisors | |

Article 4.2 Adaptations for students with a disability

| Article 4.2 Adaptations for students with a disability | |
|---|---|
| A student with a disability can, at the moment of submission to VUnet, or at a later instance, submit a request to qualify for special adaptations with regard to teaching, practical training and interim examinations. These adaptations will accommodate the student's individual disability as much as possible, but may not alter the quality or degree of difficulty of a unit of study 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 psychological evaluation. | Advice OLC; approval FGV (7.13 m) |
| 4. The faculty board, or on behalf of the faculty board, the educational director, or the programme director, decides on the adaptations concerning the teaching facilities and logistics. The Examination Board will rule on requests for adaptations 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 will make an appointment with the study adviser to discuss the details of the provisions. | Advice OLC; approval FGV (7.13 m) |
| 6. A request for adaptations will be refused if it would place a disproportionate burden on the organization or the resources of the faculty or university were it upheld. | Advice OLC; approval FGV (7.13 m) |
| 7. If the disability justifies an extension of the interim examination time, the Examination Board will grant permission testifying to this entitlement to an extension. If a disability justifies other measures to be taken, the Examination Board will advice the Faculty Board on the necessary measures to be taken. | Advice OLC; approval FGV (7.13 m) |
| 8. The decision as referred to in paragraph 7, is valid for a maximum period of one year with the exception for the chronic diseases and disabilities. | Advice OLC; approval FGV |



| (7 1 2 | > |
|--------|---|
| (/ 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 | Advice OLC; |
|---|--------------|
| demonstrable extreme unreasonableness and unfairness, the faculty board responsible for the | approval FGV |
| study programme will decide, unless the matter concerned is the responsibility of the | (9.38 sub b) |
| Examinations Board. | |

Article 5.2. Publication

| 1. | The faculty board will ensure the appropriate publication of these Regulations and any | WHW |
|----|--|-----|
| | amendments to them. | |
| 2. | The Teaching and Examination Regulations will be posted in the study guide or on | WHW |
| | VUnet. | |

Approved by authorized representative advisory body FGOV of the Faculty of Science on 3 September 2019.

Adopted by the Faculty Board on 30 August 2019.



Section B1: Programme specific – general provisions

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 i) |
|----|---|---|
| 2. | The language of instruction is English. | Advice OLC; approval FGV (9.38 sub b) |

Article 6.1a Deviant size of educational component

| By way of derogation from art. 2.1 par 3, a unit of study comprises 6 EC or a multiple, the units listed below have a deviant size: | | | | |
|---|------------------------|----|-------|--------------------------|
| Coursecode | Coursename | EC | Level | under e Approval CvB. |
| B_DYNAMICA | Linear System Dynamics | 3 | 300 | rippio (al e (b) |
| B_ENERFLOW | Energy Flow Models | 3 | 200 | |
| B_PERCACTION | Perception for Action | 3 | 500 | |

Article 6.2 Teaching formats used and modes of assessment

| 1. | The degree 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 educational component are specified in the study guide. | Advice OLC; approval FGV (7.13 l) |

7. Further admission requirements

Article 7.1 Intake date(s)

| 1. The programme starts on September 1. | Advice OLC; |
|---|--------------|
| | approval FGV |
| | (9.38 sub b) |

Article 7.2 Admission requirements

| | | D (1 1 1 |
|-----|---|-----------------------------------|
| Adı | nission to the Master's programme is possible for an applicant who has obtained a | Partly legal |
| Bac | helor's degree obtained at an institution of academic higher education, which | provison & |
| der | nonstrates the following knowledge, understanding and skills: | ordinance CvB, see appendix 3. |
| 1. | Applicants will be admitted to the degree programme if they hold a letter of | Admission |
| | acceptance, issued by or on behalf of the Faculty Board because they have | requirements |
| | demonstrated that they meet the knowledge, understanding and skills requirements of | excepted from participation in |
| | the final level of attainment in a university Bachelor's degree programme. | WHW |
| 2. | Applicants will be admitted to the degree programme if they hold a Bachelor's | |
| | degree in Artificial Intelligence from a Dutch university or a Bachelor's degree in | |
| | Computer Sciences, or Psychology with a specialization in Cognitive Science. Their | |
| | English proficiency must be equivalent to pre-university final-exam (VWO) level. | |
| 3. | If the degree programme encompasses distinct programmes, the Examination Board | |
| | will assess whether the applicant has met the applicable requirements. | |
| 4. | Those not yet in possession of a Bachelor's degree, but who meet the admission | |
| | requirements as regards the knowledge, insight and skills specified in paragraph 2, | |
| | may on request be granted conditional admission to the associated Master's | |
| | programme, insofar as failure to grant admission would result in undue unfairness. | |



| 2. | The Admissions Board will investigate whether the applicant meets the admission requirements. | Legal provision |
|----|---|-----------------------------------|
| 3. | In addition to the requirements referred to in the first paragraph, the Admissions | Partly legal |
| | Board can also assess requests for admission in terms of (at least two of) the | provison & ordinance CvB, |
| | following criteria: | see appendix 3. |
| | a. talent and motivation; | Admission |
| | b. level of relevant knowledge and understanding; | requirements |
| | c. proficiency in methods and techniques; | excepted from participation in |
| | d. academic attitude and critical thinking; | WHW |
| | e. proficiency in the language(s) of instruction | |

Article 7.3 Pre-Master's programme

| 1. | a) Students with a Bachelor's degree of a university of applied science (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. | Advice OLC; approval FGV (9.38 sub b) |
|----|--|---|
| | b) Students with a Bachelor's degree from an institution of academic higher education in a field that does not sufficiently corresponds with the subject area covered by the Master's programme can request admission to the pre-Master's programme. | |
| 2. | The pre-Master's programme comprises 30 EC and is made up on individual basis. | Advice OLC; approval FGV (9.38 sub b) |
| 3. | A successfully completed pre-Master's programme serves as proof of admission to the specified Master's programme in the subsequent academic year. | Legal provision |
| 4. | A candidate can only participate in one pre-Master's programme at the Vrije Universiteit. | Ordinance CvB, see appendix 3 |

8. Interim examinations and results

Article 8.1 Sequence of interim examinations

| 1. | Students may participate in interim examinations [or practical exercises] of the | Advice OLC; |
|----|---|---------------------------------|
| | components below only if they have passed the interim examination or examinations | approval FGV (7.13 h, s & t) |
| | for the components mentioned hereinafter: article is not applicable. | (7.13 II, 8 & 0) |

Article 8.2 Validity period for results

| 1.5 | See Article 3.8 of the Teaching and Examination Regulations, section A. No further specific provisions. | Advice OLC; approval FGV (7.13) |
|-----|--|---------------------------------------|
| 2. | A student may request the Examination Board to extend the validity of an exam. If the exam shows that a student's knowledge is insufficient or outdated, or if the student's skills and insights evaluated in the exam 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 7.15, paragraph 1. | Legal provision |



Article 8.3 Maximum Exemption(s)

| A maximum of 36 EC of the curriculum can be accumulated through granted exemptions, | Advice Ol |
|---|--------------------------|
| based on previous results within other master's programmes | approval I (7.13 par. |

Advice OLC, approval FGV (7.13 par. 2, under r jo art. 9.38 sub b)

Article 8.4 Degree

| Degree Students who have successfully completed their Master's final Exa awarded a Master of Science degree (MSc). The degree awarded is stated of | |
|--|--|
| The track name Cognitive Science will be stated on the diploma, if one has completed all the compulsory courses of this track; otherwise no track nam the diploma. | |



Section B2: Programme specific – content of programme

9. Programme objectives, specializations and exit qualifications

| Article 9.1 Workload | |
|---|-------------|
| 1. The programme has a workload of 120 EC | Advice OLC; |
| | (7.13 a) |

Article 9.2 Specializations

| 5 | The programme has the following specializations: | Advice OLC; |
|---|--|-------------|
| - | Cognitive Science | (7.13 a) |

Article 9.3 Programme objective

| The Master's programme in Artificial Intelligence is a scientific programme that aims to | Advice OLC; |
|--|-------------|
| provide the student with the knowledge, experience and insights needed to autonomously | (7.13 a) |
| carry out his/her 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 his/her | |
| chosen specialization. | |

Article 9.4 Exit qualifications

| 1. At all events, a graduate of the study programme will have: | Approval OLC |
|---|--------------|
| The objectives of the master can be specified into final qualifications. To comply with | (7.13 c) |
| 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 specialization. | |
| | |
| 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 students are | |
| highly skilled (and specialized) 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, Optimization). | |
| 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. | |
| | | |
| В. | Applying Knowledge and Understanding | |
| | sters can apply their knowledge and understanding in a manner that indicates a scientific | |
| | roach to their work or vocation. They are able to handle complex and ill-defined | |
| | blems for which it is not a priori known if there is an appropriate solution, how to | |
| - | uire the necessary information to solve the sub-problems involved, and for which there | |
| - | o standard or reliable route to the solution. | |
| | | |
| Qua | alifications: | |
| 1. | The ability to formulate a project plan for an open problem in a field related to | |
| | Artificial Intelligence in general and the own specialization 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. | |
| | | |
| | Making Judgments | |
| | e master is able to formulate an opinion or course of action on the basis of incomplete, | |
| lim | ited and in part unreliable information. | |
| | lificational | |
| - | alifications: | |
| 1. | Competence in the search and critical processing of all sources of information that help to solve an open and ill-defined problem; | |
| 2 | | |
| 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 | |
| 5. | scientific literature. | |
| D. | Communication | |
| | e master can communicate information, ideas, problems and solutions to audiences of | |
| spe | cialist in (other) research areas and to a general audience. | |
| | alifications: | |
| The | e 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 | |
| | e master has developed those learning skills that are necessary for a successful further | |
| | eer at the highest professional level. The master is able to detect missing knowledge and | |
| abil | lities and to deal with them appropriately. | |
| Qua | alifications: | |
| 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. | |
| 2. | Without prejudice to the provisions of paragraph 1, a graduate of the specialization | Approval OLC (7.13 b) |
| | Cognitive Science will have the following additional knowledge and understanding: | (7.15 0) |
| А. | Knowledge and Understanding | |
| 1. | Has advanced understanding of Cognitive Science; | |
| | | |
| 2. | Has knowledge of the experimental methods and findings from research into the | |
| 2. | Has knowledge of the experimental methods and findings from research into the cognitive psychology of behavior; | |
| B. | cognitive psychology of behavior; Applying Knowledge and Understanding | |
| | cognitive psychology of behavior; | |
| B. | cognitive psychology of behavior; Applying Knowledge and Understanding Can apply empirical methods to improve the understanding of neurobiological | |
| B. 1. | cognitive psychology of behavior; Applying Knowledge and Understanding Can apply empirical methods to improve the understanding of neurobiological processes and phenomena; | |



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, |
|----|--|----------------|
| | individual Master's thesis or academic internship. | see appendix 3 |
| 2. | Additionally the programme can offer: | Advice OLC; |
| | - Practical exercises; | (7.13 a) |
| | - Electives | |
| 3. | Educational components are categorized as specialized (400), research oriented (500) and | Ordinance CvB, |
| | highly specialized (600) level. | see appendix 3 |

Article 10.2 Compulsory educational components

A detailed description per educational component can be found in the Study Guide.

| Educational component | course code | nr of EC | level | Advice |
|--|--------------|----------|-------|----------|
| Knowledge Representation | XM_0059 | 6 | 400 | OLC; |
| Multi-Agent Systems | XM_0052 | 6 | 400 | (7.13 a) |
| Social Intelligent Robotics | XM_0074 | 6 | 400 | |
| AI and Society | XM_0075 | 6 | 400 | |
| Experimental Design and Data Analysis | X_405078 | 6 | 400 | |
| Natural language Processing Technology | L_AAMAALG005 | 6 | | |
| Evolutionary Computing | X_400111 | 6 | 400 | |
| Master Project AI | X_400285 | 30 | 600 | |
| Constrained Choice (compulsory at least 1 course |) | | | |
| - Cognitive Psychology and its Application | XM_40010 | 6 | 400 | |
| - Skills for AI | XM_0077 | 6 | 400 | - |
| Constrained Choice ML (compulsory at least 1 co | burse) | | | |
| - Data Mining Techniques | X_400108 | 6 | 500 | |
| - Machine Learning for the Quantified Self | XM_40012 | 6 | 400 | |
| Cognitive Science track: | | | | - |
| Brain Imaging | P_MBRIMAG_AI | 6 | 400 | |
| Seminar Cognitive Neuroscience AI | P_MSEMCNS_AI | 6 | 400 | 1 |
| Neural Models of Cognitive Processes AI | P_NEUMOD_AI | 6 | 400 | |
| Constrained Choice Final Project: | | | | + |
| M Thesis Rsrch Prjct Cogn. Science | P_MTHRCSC | 30 | 400 | 1 |
| Master Project AI | X_400285 | 30 | 600 | 1 |

Article 10.3 Elective educational components

| 1. The student can take one or more of the following electives without prior consent from | | | | Advice OLC; |
|---|-------------|----------|-------|-------------|
| the Examination Board: | | | | (7.13 a) |
| Name of educational component | course code | nr of EC | Level | |
| Artificial Intelligence (Deepening) | | | | |
| Advanced Machine Learning | XM_0010 | 6 | 400 | |
| Intelligent Interactive systems (uva) | XMU_418023 | 6 | 400 | |
| Knowledge and Media | X_405065 | 6 | 500 | |
| Planning and Reinforcement Learning | XM_0055 | 6 | 400 | |
| Knowledge Engineering | X_405099 | 6 | 400 | |
| Behaviour Dynamics in Social Networks | X_400113 | 6 | 400 | |



| Mini master project AI | XM_400428 | 6 | 500 |
|--|----------------------|---|-----|
| Learning Machines | XM_0061 | 6 | 500 |
| Advanced Logic | X_405048 | 6 | 500 |
| The Social Web | X_405086 | 6 | 400 |
| Entrepreneurship for AI and CS | X_405080 XM_0009 | 6 | 400 |
| Data Mining Techniques | X_400108 | 6 | 500 |
| Knowledge Representation on the web | XM_0060 | 6 | 400 |
| Machine Learning for Quantified Self | XM_40012 | 6 | 400 |
| Seminar | XM_40012 X_405111 | 6 | 400 |
| Seminar Combining Symbolic and Statistical | 5204SCSS6Y | 0 | -00 |
| Methods in AI (uva) | J2045C550I | | |
| | | | |
| Language Technology | | | |
| Programming in Python for Text | L_AAMPLIN021 | 6 | 500 |
| Computational Lexicon | L AAMPLIN013 | 6 | 500 |
| Subjectivity Mining | L_AAMPLIN018 | 6 | 500 |
| Machine Learning for NLP | L_AAMPLIN024 | 6 | 500 |
| Text Mining Domains | L_PAMATLW003 | 6 | 400 |
| Applied Text Mining | L_PAMATLW002 | 6 | 400 |
| | | | |
| Cognitive Science | | | |
| Aging and Age related disorders | P_MAGINGD | 6 | 400 |
| Memory and Memory Disorders | P_MMEMORY | 6 | 400 |
| Seminar Attention | P_MSEMATT | 6 | 400 |
| Brain Imaging | P_MBRIMAG_AI | 6 | 400 |
| Seminar Cognitive Neuroscience | P_MSEMCNS_AI | 6 | 400 |
| Neural Models of Cognitive Processes | P_NEUMOD_AI | 6 | 400 |
| Behaviour Dynamics in Social Networks | X_400113 | 6 | 400 |
| | | | |
| Social Robotics | | | |
| Essentials of Media Psychology | S_EMP | 6 | 500 |
| Social Robotics | S_SR | 6 | 500 |
| Social Intelligent Robotics Project | XM_0076 | 6 | 500 |
| Application domains Haskh Color | | | |
| Application domain: Health Sciences | AM 470720 | 6 | 400 |
| Health psychology | AM_470730 | - | |
| Health promotion and disease prevention | AM_470811 | 6 | 500 |
| Prevention of Mental Health Problems | AM_470840 | 6 | 400 |
| Application domain: Human Movement | | | |
| Sciences | | | |
| Linear System Dynamics | B_DYNAMICA | 3 | 300 |
| Energy Flow Models | B_ENERFLOW | 3 | 200 |
| Coordination Dynamics: Prin. Clin. Appl. | B_CLINCORDYN | 6 | 400 |
| Perception for Action | B_PERCACTION | 3 | 500 |
| | | | 200 |
| Application domain: Criminology | | | |
| Misdaadanalyse en daderprofilering | R_Misd.anaC | 6 | 400 |
| Spatial Criminology | R_SpaCrim | 6 | 600 |
| | | | |
| Application domain: ICT4D | | | |



| ICT4D | X_405101 | 6 | 400 | |
|---|------------|---|-----|-------------|
| ICT4D in the field | XM_0008 | 6 | 400 | |
| | | | | |
| Others | | | | |
| Internet Programming | X_405082 | 6 | 400 | |
| History of digital cultures | XMU_418107 | 6 | 400 | |
| 2. If the student wishes to take a different educational component than listed, advance | | | | Advice OLC; |
| permission must be obtained in writing from the Examinations Board. | | | | (7.13 a) |

Article 10.4 Participation in practical training and tutorials

| | In the case of a practical training, the student must attend at 100% of the practical sessions. Should the student attend less than 100%, he or she must repeat the practical training, or the Examinations Board may have one or more supplementary assignments issued. | Approval OLC (7.13 d) |
|----|---|--------------------------|
| 2. | Student are expected to participate actively in all degree components for which they are registered. | |
| 3. | In addition to the general requirement regarding active participation, the study guide details additional requirements for each degree component, including attendance requirements. | |
| 4. | At the start of each degree component, a specification will be made available which details: The final attainment levels of the degree component; The study guidelines for passing the degree component; The way in which the final attainment levels are assessed; The regulations for examinations and resits; The guidance provided by lecturers during scheduled hours and otherwise; Component attendance requirements; The provision of feedback to the student on assignments and reports submitted, and presentations given during the degree component. If a student is prevented by force majeure from attending a required degree component, then the student must send written notification of his or her absence to the examiner | |
| 6. | and the study advisor as soon as possible. The examiner may, after consultation with the study advisor, give the student an alternative assignment. Absence from degree components with required attendance is only allowed in the case | |
| | of force majeure. | |
| 7. | In the event of inadequate participation, either qualitative or quantitative, the examiner may exclude the student from further participation in the degree component or a part of the degree component. The details of the student's inadequate participation must be recorded in advance and approved by the Director of Studies. | |

11. Evaluation and transitional provisions

Article 11.1 Evaluation of the education

| | The education provided in this programme is evaluated in accordance with the (attached) evaluation plan. The faculty evaluation plan offers the framework. | Approval OLC (7.13 a1) | | | |
|---|--|------------------------|--|--|--|
| A | Article 11.2 Transitional provisions | | | | |
| | By way of departure from the Teaching and Examination Regulations currently in force, the | Advice OLC | | | |

following transitional provisions apply for students who started the programme under a previous set of Teaching and Examination Regulations: *article is not applicable*. (7.13 a)



Advice and approval by the Programme Committee, on 13 February 2019.

Approved by the Faculty Joint Assembly, on 3 September 2019.

Adopted by the board of the Faculty of Science on 30 August 2019.



Appendix I Overview of articles that must be included in the OER

Based on Section 7.13, paragraph 2, of the WHW and other Sections of the Act.

| Section B1: Programme specific – general provisions | | |
|---|------------------------------|--|
| 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 | |
| [option:] Article 6.3 Academic student counselling | 7.13 paragraph 2 sub u | |
| 7. Further admission requirements | | |
| Article 7.2 Admission requirements | 7.30b paragraph 2 | |
| 8. Interim examinations and results | | |
| Article 8.1 Sequence of interim 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 B1: Programme specific – general provisions

Section B2: Programme specific – content of programme

| 9. Programme objectives, specializations and exit qualifications | | |
|--|---------------------------|--|
| Article 9.1 Workload | 7.13 paragraph 2 sub g | |
| Article 9.2 Specializations | 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 | |
| 10. Curriculum structure | | |
| Article 10.1 Composition of the programme | 7.13 paragraph 2 sub a | |
| Article 10.2 Compulsory educational components | 7.13 paragraph 2 sub a | |
| [Optional] Article 10.3 Elective educational components | 7.13 paragraph 2 sub a | |
| [Optional] 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 education | 7.13 paragraph 2 sub a1 | |
| Article 11.2 Transitional provisions | 7.13 paragraph 2 sub a | |



Appendix II Overview of rights to prior consultation (advice) and rights to approve OLC and FGV

(Dutch only)

| Onderwerpen Onderwijs – en Examenregeling (OER) 7.13 paragraph 2 | | FGV | | OplC | |
|---|---|-----|---|------|--|
| WHW | Ι | Α | Ι | Α | |
| a. de inhoud van de opleiding en van de daaraan verbonden examens | | | | | |
| a1. de wijze waarop het onderwijs in de desbetreffende opleiding wordt geëvalueerd | | | | | |
| b. de inhoud van de afstudeerrichtingen binnen een opleiding | | | | | |
| c. de kwaliteiten op het gebied van kennis, inzicht en vaardigheden die een student zich bij | | | | | |
| beëindiging van de opleiding moet hebben verworven | | | | | |
| d. waar nodig, de inrichting van praktische oefeningen | | | | | |
| e. de studielast van de opleiding en van elk van de daarvan deel uitmakende onderwijseenheden | | | | | |
| f. de nadere regels, bedoeld in de artikelen 7.8b, zesde lid, en 7.9, vijfde lid (BSA) | | | | | |
| g. ten aanzien van welke masteropleidingen toepassing is gegeven aan artikel 7.4a, achtste lid (verhoogde studielast) | | | | | |
| h. het aantal en de volgtijdelijkheid van de tentamens alsmede de momenten waarop deze afgelegd kunnen worden | | | | | |
| i. de voltijdse, deeltijdse of duale inrichting van de opleiding | | | | | |
| j. waar nodig, de volgorde waarin, de tijdvakken waarbinnen en het aantal malen per studiejaar dat de gelegenheid wordt geboden tot het afleggen van de tentamens en examens | | | | | |
| k. waar nodig, de geldigheidsduur van met goed gevolg afgelegde tentamens, behoudens de bevoegdheid van de examencommissie die geldigheidsduur te verlengen | | | | | |
| 1. of de tentamens mondeling, schriftelijk of op een andere wijze worden afgelegd, behoudens de | | | | | |
| bevoegdheid van de examencommissie in bijzondere gevallen anders te bepalen | | | | | |
| m. de wijze waarop studenten met een handicap of chronische ziekte redelijkerwijs in de | | | | | |
| gelegenheid worden gesteld de tentamens af te leggen | | _ | | | |
| n. de openbaarheid van mondeling af te nemen tentamens, behoudens de bevoegdheid van de | | | | | |
| examencommissie in bijzondere gevallen anders te bepalen | | | | | |
| o. de termijn waarbinnen de uitslag van een tentamen bekend wordt gemaakt alsmede of en op welke wijze van deze termijn kan worden afgeweken | | | | | |
| p. de wijze van deze termijn gedurende welke degene die een schriftelijk tentamen heeft | _ | _ | | | |
| afgelegd, inzage verkrijgt in zijn beoordeelde werk | | | | | |
| q. de wijze waarop en de termijn gedurende welke kennis genomen kan worden van vragen en | | | | | |
| opdrachten, gesteld of gegeven in het kader van een schriftelijk afgenomen tentamen en van de normen aan de hand waarvan de beoordeling heeft plaatsgevonden | | | | | |
| r. de gronden waarop de examencommissie voor eerder met goed gevolg afgelegde tentamens of | | | | | |
| examens in het hoger onderwijs, dan wel voor buiten het hoger onderwijs opgedane kennis of | | | | | |
| vaardigheden, vrijstelling kan verlenen van het afleggen van een of meer tentamens | | | | | |
| s. waar nodig, dat het met goed gevolg afgelegd hebben van tentamens voorwaarde is voor de toelating tot het afleggen van andere tentamens | | | | | |
| t. waar nodig, de verplichting tot het deelnemen aan praktische oefeningen met het oog op de | | | | | |
| toelating tot het afleggen van het desbetreffende tentamen, behoudens de bevoegdheid van de | | | | | |
| examencommissie vrijstelling van die verplichting te verlenen, al dan niet onder oplegging van | | | | | |
| vervangende eisen | | | | | |
| u. de bewaking van studievoortgang en de individuele studiebegeleiding | | | | | |
| v. indien van toepassing: de wijze waarop de selectie van studenten voor een speciaal traject | | | | | |
| binnen een opleiding, bedoeld in artikel 7.9b, plaatsvindt (excellentietraject binnen een | | | | | |
| opleiding) | | | | | |
| x. de feitelijke vormgeving van het onderwijs | | | | | |
| alle overige onderwerpen die in de OER zijn geregeld maar die niet als zodanig zijn genoemd in art. 7.13 WHW onder a t/m x. | | | | | |
| De lettering komt overeen met de lettering van artikel 7.13 lid 2 WHW | | 1 | | | |



Appendix III Ordinances VU CvB and Binding Guidelines

| Section B1, article: | Concerns: | CvB ordinance / guideline |
|-------------------------|---|--|
| 7.2.1 | Admission criteria; at least WO Bachelor's | Richtlijn Bachelor en Masteronderwijs, revised |
| | degree | on 6 June 2017 |
| 7.2.3 | Additional admission criteria; type of criteria | Richtlijn Bachelor en Masteronderwijs, revised |
| | | on 6 June 2017 |
| Section B1, article: | Concerns: | CvB ordinance / guideline |
| 10.1 | Composition programme | Richtlijn Bachelor en Masteronderwijs, revised |
| | | on 6 June 2017 |
| 10.2 | Categorization of components | Richtlijn Bachelor en Masteronderwijs, revised |
| | | on 6 June 2017 |

