

## Besluit **Besluit strekkende tot het verlenen van accreditatie aan de opleiding wo-master Logic van de Universiteit van Amsterdam**

	<b>Gegevens</b>	
<b>datum</b>	31 juli 2014	Naam instelling : Universiteit van Amsterdam
<b>onderwerp</b>	Besluit accreditatie wo-master Logic van de Universiteit van Amsterdam (002300)	Naam opleiding : wo-master Logic (120 ECTS)
<b>uw kenmerk</b>		Datum aanvraag : 10 december 2013
<b>ons kenmerk</b>	NVAO/20142402/SL	Variant opleiding : voltijd
<b>bijlagen</b>	3	Afstudeerrichtingen : Logic and Computation Logic and Language Logic and Mathematics Logic and Philosophy
		Locatie opleiding : Amsterdam
		Datum goedkeuren panel : 16 juni 2013
		Datum locatiebezoek : 21 juni 2013
		Datum visitatierapport : 2 oktober 2013
		Instellingstoets kwaliteitszorg : ja, positief besluit van 10 juni 2013

### **Beoordelingskader**

Beoordelingskader voor de beperkte opleidingsbeoordeling van de NVAO (Stcrt. 2010, nr 21523).

### **Bevindingen**

De NVAO stelt vast dat in het visitatierapport deugdelijk en kenbaar is gemotiveerd op welke gronden het panel de kwaliteit van de opleiding excellent heeft bevonden.

Samenvatting bevindingen en overwegingen van het panel.

The panel has observed that the programme management has taken up the recommendations by the panel which conducted the previous review of the programme in 2007. In particular, the number of students admitted in the programme has only moderately increased, the programme management has tried to support students to obtain grants, the programme has been relocated without major problems and the programme management has been able to shield students and staff from excessive bureaucracy.

Although in a formal sense being part of the Faculty of Science, the programme may be considered to be a co-production of the Faculty of Science and the Faculty of Humanities. The panel has found that both Faculties are strongly committed to the programme.

The panel considers it a valuable objective of the programme to educate students in logic, to be understood as the general study of information, also because this gives the programme a clear profile. This concept of logic does not only establish connections to disciplines like mathematics, linguistics, computer science and philosophy, but also to disciplines like economics, game theory, cognitive science and social choice theory, thereby opening up new research directions. The programme offers four specializations, giving the students the opportunity to specialize in a specific area. The programme's intended learning outcomes are a sound representation of the objective, encompassing interdisciplinary research, advanced knowledge of the specialization which has been chosen and research and communication skills. The panel is convinced these learning outcomes meet the master's level and more than suffice to bring the students up to the required level in their specialization and in the interdisciplinary field. The research environment of the Institute for Logic, Language and Computation ensures the programme remains in line with up-to-date scientific research, in the sciences as well as in the humanities. The learning outcomes qualify for Ph.D.-positions as well as for positions in the business world.

The panel considers the entry requirements for the programme to be relevant and the admission process to be excellent. The programme management is very careful in handling requests for admission by applicants, and does not hesitate to advise them against entering the programme if there is a less than perfect match. The admission procedure is very well designed, allowing only the most talented and motivated students in.

Although the study paths of the students are individually designed and match the students' interests, the panel is convinced each one of the students attains the learning outcomes of the programme. The mentor assists them in designing a coherent curriculum, which meets the learning outcomes. Having studied the contents of the courses, the panel assesses the curriculum to be of an excellent quality, allowing the students to obtain in-depth advanced disciplinary knowledge and a broad interdisciplinary perspective on the field of logic. Scientific research is strongly represented in the courses as well as in the research projects and the thesis.

In the opinion of the panel, the lecturers are first-class researchers, being able to teach the students the state of the art of their fields of expertise. They enable the students to obtain in-depth knowledge of the various aspects of logic, at the forefront of the scientific developments. As a recommendation, the panel advises the programme management to increase the number of BKO-certified lecturers.

Pagina 3 van 7 Although the study load of the programme corresponds to the number of credits, the panel acknowledges the programme to be very challenging. The programme management addresses the study load issue appropriately, by warning the students against overestimating their capabilities and by offering an intensive mentoring system. The study methods of the programme foster the learning processes of the students. The new University of Amsterdam schedule may not be the best schedule for some of the courses, as the learning process of some of these (e.g. certain mathematical courses) is difficult to accelerate in such a way that it fits into an eight-week period. In the opinion of the panel, the system of academic mentors of the programme is designed in an excellent manner and is very conducive to the learning processes of the students.

The panel regards the housing and the material facilities to be appropriate, especially the students' own MoL-room where they may gather for study and discussion. Also, the panel is positive about the formal and informal evaluation mechanisms the programme management has put in place.

The assessment policy of the programme is sound and conforms to the University's and Faculty's rules and regulations, taking specific aspects of the programme's examinations into account. The board of examiners acts in accordance with the rules. The panel advises the board of examiners to study, more systematically, the examinations of the courses in order to be able to assess the examinations' quality more thoroughly, to catch early warning signals wherever necessary.

The examinations of the courses meet the learning objectives of the courses and are of very good quality. The panel regards the master's thesis process and assessment to be sound and to lead to a fair assessment of the theses. Still, the panel recommends the programme management to specify the assessment criteria for the master's thesis more clearly and to communicate these more explicitly to the students.

The panel is impressed by the quality and the level of the master's theses. Having studied a representative number of these theses, the panel assesses them to have reached a level substantially above the level which may be expected of a master's thesis, and to often report results that could be included in a Ph.D.-thesis. A surprisingly large number of students are doing excellent research. The panel, also, is impressed by the large number of master's theses having led to peer-reviewed publications, often jointly written with the student's supervisor.

The program has a strong research orientation, and the majority of the graduates obtain Ph.D.-positions at renowned universities. This is another reason for the panel to assess this programme as one of the best, if not the best programme on logic in the world.

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Ingevolge het bepaalde in artikel 5a.10, derde lid, van de WHW heeft de NVAO het college van bestuur van de Universiteit van Amsterdam te Amsterdam in de gelegenheid gesteld zijn zienswijze op het voornemen tot besluit van 26 mei 2014 naar voren te brengen. Bij e-mail van 27 juni 2014 heeft de instelling gereageerd op het voornemen tot besluit. Dit heeft geleid tot aanvulling van bijlage 2 in het definitieve besluit.


De NVAO besluit accreditatie te verlenen aan de wo-master Logic (120 ECTS; variant: voltijd; locatie: Amsterdam) van de Universiteit van Amsterdam te Amsterdam. De opleiding kent de volgende afstudeerrichtingen: Logic and Computation, Logic and Language, Logic and Mathematics, Logic and Philosophy. De NVAO beoordeelt de kwaliteit van de opleiding als excellent.

Dit besluit treedt in werking op 31 juli 2014 en is van kracht tot en met 30 juli 2020.

Den Haag, 31 juli 2014

De NVAO  
Voor deze:

   
Dr. A.H. Flierman  
(voorzitter)

  
L. Bollaars  
(bestuurder)

Tegen dit besluit kan op grond van het bepaalde in de Algemene wet bestuursrecht door een belanghebbende bezwaar worden gemaakt bij de NVAO. De termijn voor het indienen van bezwaar bedraagt zes weken.

Onderwerp	Omschrijving	Score
<b>1. Beoogde eindkwalificaties</b>	De beoogde eindkwalificaties van de opleiding zijn wat betreft inhoud, niveau en oriëntatie geconcretiseerd en voldoen aan internationale eisen	<b>Goed</b>
<b>2. Onderwijsleeromgeving</b>	Het programma, het personeel en de opleidingsspecifieke voorzieningen maken het voor de instromende studenten mogelijk de beoogde eindkwalificaties te realiseren	<b>Excellent</b>
<b>3. Toetsing en gerealiseerde eindkwalificaties</b>	De opleiding beschikt over een adequaat systeem van toetsing en toont aan dat de beoogde eindkwalificaties worden gerealiseerd	<b>Excellent</b>
<b>Eindoordeel</b>		<b>Excellent</b>

De standaarden krijgen het oordeel onvoldoende (O), voldoende (V), goed (G) of excellent (E). Het eindoordeel over de opleiding als geheel wordt op dezelfde schaal gegeven.

**Tabel 1: Rendement.**

<b>Cohort</b>	2009	2010	2011
<b>Rendement</b>	72%	82%	-

**Tabel 2: Docentkwaliteit.**

<b>Graad</b>	<b>Ma</b>	<b>PhD</b>	<b>BKO</b>
<b>Percentage</b>	100%	100%	22%

**Tabel 3: Student-docentratio.**

<b>Ratio</b>	10,1:1
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**Tabel 4: Contacturen.**

<b>Studiejaar</b>	1	2
<b>Contacturen</b>	13	7,5

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- Prof. H.E. de Swart Ph.D., panel chair, professor in French Linguistics and Semantics, Utrecht University, with a special appointment as a core member of the Cognitive Artificial Intelligence programme;
- Prof. J.F. Horty Ph.D., panel member, professor, Philosophy Department and Institute for Advanced Computer Studies and affiliate professor, Computer Science Department, University of Maryland;
- Prof. C. Stirling Ph.D., panel member, professor in Computer Science, School of Informatics, Edinburgh University;
- A.M.A. Kangur BSc, student member, student in the master's programme Artificial Intelligence, University of Groningen.

Het panel werd ondersteund door W. Vercouteren MSc, secretaris (gecertificeerd).