

Besluit

Besluit strekkende tot het verlenen van accreditatie aan de opleiding wo-master Science and Innovation van de Universiteit Utrecht

Gegevens

datum	Naam instelling	:	Universiteit Utrecht
31 augustus 2017	Naam opleiding	:	wo- master Science and Innovation (120 EC)
onderwerp	Datum aanvraag	:	3 mei 2017
Besluit	Variant opleiding	:	voltijd
accreditatie wo- master Science and Innovation van de Universiteit Utrecht (005739)	Afstudeerrichtingen	:	Innovation Sciences, Energy Science, Sustainable Business and Innovation
uw kenmerk	Locatie opleiding	:	Utrecht
O&O N12962	Datum goedkeuren	:	
ons kenmerk	panel	:	19 december 2016
NVAO/20172185/ND	Datum locatiebezoek	:	3 februari 2017
bijlagen	Datum visitatierapport	:	14 april 2017
2	Instellingstoets kwaliteitszorg	:	ja, positief besluit van 12 juli 2012

Beoordelingskader

Beoordelingskader voor de beperkte opleidingsbeoordeling van de NVAO (Stcrt. 2014, nr 36791).

Bevindingen

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

Advies van het visitatiepanel

Samenvatting bevindingen en overwegingen van het panel.

In this executive summary, the panel presents the main considerations which have led to the external assessment of the quality of the programme Master Science and Innovation of Utrecht University. The programme has been assessed according to the NVAO Assessment Framework.

The panel observed programme management followed up on the recommendations made in the previous assessment in 2012.

Pagina 2 van 6 Programme management, among others, extended the canon of the programme to include methods and academic and professional skills, improved the programme's connection to real-world problems and practices and implemented the examination and assessment policies.

The programme offers three specialisations. These are Innovation Sciences, Sustainable Business and Innovation and Energy Science. The Innovation Sciences specialisation is being offered for about 25 years. The Sustainable Business and Innovation specialisation is rather new and is offered since 2013. The Energy Science specialisation has been transferred from the Faculty of Science of Utrecht University where the programme started in 2005. It is offered by the Faculty of Geosciences since 2013.

The panel very much welcomes the efforts of management of the Vrije Universiteit, Utrecht University and Eindhoven University of Technology programmes to draft the domain-specific framework of reference. Through this framework, the programme is definitely linked to international concepts, notions and trends in the innovation sciences domain.

The programme goals to educate students to master innovation processes and systems and to address important societal and business challenges in innovation systems and in organisations, are valid. The objectives of the specialisations may be regarded to be consistent with these goals. The Energy Science specialisation objectives, however, differ from the programme goals and the other two specialisations' objectives and are not entirely consistent with the domain-specific framework of reference. Therefore, the panel supports the plan of programme management to apply for the separate registration for this specialisation.

The panel is very positive about the canons of the Innovation Sciences and Sustainable Business and Innovation specialisations, since these are an important means to delineate the domain of these two specialisations and to list the theories, methods and skills being included in these domains. In addition, the panel applauds the level of the intended learning outcomes, the degree of detail achieved in them and the way in which these have been matched with the domain-specific framework of reference and the Dublin-descriptors for master programmes.

The Advisory Board of the programme offers programme management a broad window on trends in the professional field.

The number of incoming students is satisfactory for the Sustainable Business and Innovation and Energy Science specialisations. The panel shares the concerns of programme management about the diminishing influx of students in the Innovation Sciences specialisation and recommends to raise this inflow.

For the panel, the admission requirements and processes are well designed. Only students are admitted who may be regarded to have the capacities to complete the programme. The panel is positive about the pre-master programme for Dutch students with deficiencies.

The curriculum reflects all of the intended learning outcomes of the programme adequately and evenly. The panel considers the curriculum to be well designed, addressing the theories and the methodologies inherent to the specialisation chosen. The panel is positive about the Consultancy projects, as these allow students to link their knowledge and understanding to

Pagina 3 van 6 *real-life problems and to address these problems in an integrative way. The coherence of the curricula within each of the specialisations is appropriate. As the interaction between the specialisations is less intensive, the panel recommends to exchange best practices among the specialisations and to consider increasing the overlap between these. The panel regards the international dimension of the programme to be adequate.*

The educational principles and the study methods of the programme allow for intensive, small-scale teaching and learning. The study load is substantial, making the programme challenging. The study guidance is appropriate for a master programme.

The panel is very positive about the lecturers' research track records as well as about their educational track records. The Copernicus Institute of Sustainable Development, at which all of them are employed as researchers, has a very strong reputation as a research institute. The educational capabilities are equally impressive, to be deduced from the very high proportion of 87 % of lecturers having obtained the BKO- certificate and 37 % of them being in possession of the SKO-certificate. The lecturers discuss the curriculum on a regular basis.

The examination and assessment rules and regulations of the programme meet university and Faculty of Geosciences policies. The panel considers the Memorandum for Assessments and the implementation thereof to be an important step to ensure the quality of the examinations and assessments in the programme. The panel is positive about the position and activities of the Board of Examiners. The Board has the responsibilities and works along the lines, as intended by Dutch applicable law. The examinations are regularly inspected by the Committee of Assessments. In the panel's view, the examination methods are in line with the course contents and the validity and reliability of examinations and assessments are satisfactory. Supporting the plans of programme management, the panel advises to draft a comprehensive assessment matrix to relate course goals and contents to the intended learning outcomes and to implement an examinations repository to document the goals, contents and examinations of the courses. The panel also advises to continue the plans of the Committee of Assessments to improve identifying individual results in group assignments. The panel regards the processes of supervision and assessment for the Master thesis as satisfactory and is positive about the adoption of rubrics scoring models in this respect.

The examinations are regarded by the panel to be in line with the contents of the courses. The Master theses are of good quality and the level achieved by the students in the theses is generally high. The panel recommends to intensify the supervision of the theses, as this may raise the already high and much appreciated level of the theses. The panel is very positive about the career perspectives of the graduates of the programme. They tend to find suitable positions rather soon after their graduation.

Pagina 4 van 6 **Besluit**

Ingevolge het bepaalde in artikel 5a.10, derde lid, van de WHW heeft de NVAO het college van bestuur van de Universiteit Utrecht te Utrecht in de gelegenheid gesteld zijn zienswijze op het voornemen tot besluit van 17 juli 2017 naar voren te brengen. Van deze gelegenheid heeft het college van bestuur geen gebruik gemaakt.

De NVAO besluit accreditatie te verlenen aan de wo-master Science and Innovation (120 EC; variant: voltijd; locatie: Utrecht) van de Universiteit Utrecht te Utrecht. De opleiding kent de volgende afstudeerrichtingen: Innovation Sciences, Energy Science, Sustainable Business and Innovation. De NVAO beoordeelt de kwaliteit van de opleiding als goed.

Dit besluit treedt in werking op 31 augustus 2017 en is van kracht tot en met 30 augustus 2023.

Den Haag, 31 augustus 2017

De NVAO
Voor deze:

A handwritten signature in blue ink, consisting of a large loop and a horizontal line extending to the right.

Dr. A.H. Flierman
(voorzitter)

Paul Zevenbergen
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	Standaard	Beoordeling door het panel
1. Beoogde eindkwalificaties	De beoogde eindkwalificaties van de opleiding zijn wat betreft inhoud, niveau en oriëntatie geconcretiseerd en voldoen aan internationale eisen.	Goed
2. Onderwijsleeromgeving	Het programma, het personeel en de opleidingsspecifieke voorzieningen maken het voor de instromende studenten mogelijk de beoogde eindkwalificaties te realiseren.	Goed
3. Toetsing	De opleiding beschikt over een adequaat systeem van toetsing.	Voldoende
4. Gerealiseerde eindkwalificaties	De opleiding toont aan dat de beoogde eindkwalificaties worden gerealiseerd.	Goed
Eindoordeel		Goed

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

- Prof. dr. ir. P.C. de Weerd-Nederhof, Professor Organizational Studies and Innovation and chair of NIKOS, University of Twente (panel chair);
- Prof. dr. A.M. Bergek, Professor Innovation Systems and Technology Policy, Chalmers University of Technology (panel member);
- Prof. dr. M.S. van Geenhuizen, Professor of Innovation and Innovation Policy in the Urban Economy, Delft University of Technology (panel member);
- E.E.M. Leo BSc, student Master Educational Sciences, University of Amsterdam (student member).

Het panel werd ondersteund door drs. W.Vercouteren Rc, secretaris (getraind).