

Besluit

Besluit strekkende tot het verlenen van accreditatie aan de opleiding wo-master Environmental and Energy Management van de Universiteit Twente

Gegevens

datum	Naam instelling	:	Universiteit Twente
2 oktober 2013	Naam opleiding	:	wo-master (postinitieel)
onderwerp			Environmental and Energy Management (65 ECTS)
Definitief besluit	Datum aanvraag	:	24 januari 2013
accreditatie wo-master	Variant opleiding	:	voltijd
Environmental and Energy	Afstudeerrichtingen	:	Environmental Management
Management van de Universiteit			Energy Management
Twente			Water Governance
(001476)	Locaties opleiding	:	Enschede, Leeuwarden
uw kenmerk	Datum goedkeuren		
S&B/399.479/jb	panel	:	9 oktober 2012
ons kenmerk	Datum locatiebezoek	:	19 oktober 2012
NVAO/20133132/ND	Datum visitatierapport	:	21 december 2012
bijlagen			
3	Instellingstoets kwaliteitszorg	:	aangemeld en geaccepteerd voor het invoeringsregiem van de instellingstoets kwaliteitszorg als bedoeld in artikel 18.32 b en c van de WHW

Aanvullende informatie

De NVAO heeft bij e-mail van 14 juni 2013 de instelling aanvullende informatie gevraagd over de kwantitatieve gegevens. Bij e-mail van 30 juli en 2 augustus 2013 heeft de NVAO de aanvullende informatie ontvangen.

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 voldoende heeft bevonden.

Inlichtingen

Lineke van Bruggen
+31 (0)70 312 23 24
l.vanbruggen@nva

Parkstraat 28 | 2514 JK | Postbus 85498 | 2508 CD Den Haag
P.O. Box 85498 | 2508 CD The Hague | The Netherlands
T + 31 (0)70 312 2300 | F + 31 (0)70 312 2301
info@nva

Samenvatting bevindingen en overwegingen van het panel (hierna ook: the committee).

This report presents the findings, considerations and conclusions of the committee that assessed the master's programme Environmental and Energy Management of the University of Twente. The committee concludes that the programme fulfils the criteria for generic quality that are a condition for accreditation.

Intended learning outcomes

The committee assesses Standard 1 for the Master of Environmental and Energy Management as good.

The Master of Environmental and Energy Management (MEEM) is an international master's programme, offered by the Twente Centre for Studies in Technology and Sustainable Development (CSTM) at the University of Twente. The MEEM is a multi-disciplinary one-year master's programme, which combines issues of governance and management with a focus on environmental management and energy management.

The MEEM programme aims to prepare future decision makers in companies, government and non-governmental organisations, for analysing and acting in an environmentally proactive way when making decisions about policies, productions and resource utilization. Graduates will be able to develop, implement, monitor and evaluate environmental and energy management programmes, policies and projects.

The committee has established that the programme management is well-aware of the position of the programme in the field of environmental science and that it has made well-considered choices with respect to the profile of the programme. The programme's intended learning outcomes define environmental and energy management as a multi-disciplinary field of environmental sciences. The intended learning outcomes also refer to more general academic knowledge, skills and attitude, including knowledge of relevant research methods.

The committee studied the programme's intended learning outcomes and the domain-specific framework of reference that provides a description of the domain of environmental science. The intended learning outcomes reveal that the programme prepares students for a professional as well as an academic career. The committee concludes that the intended learning outcomes have been concretised with respect to content and match the level of a master programme.

Teaching-learning environment

The committee assesses Standard 2 for the Master of Environmental and Energy Management as good.

The MEEM programme is a small-scale programme with short communication lines between staff involved and the students. The committee acknowledges that the programme has managed to create a very ambitious environment in which management, lecturers and students are committed and motivated to working together on ambitious objectives.

Pagina 3 van 7 The committee found an engaging curriculum of one year, divided in three blocks: course work, case study and research project, with a clear pedagogical concept. The progression through the different blocks is visible and considered appropriate.

The committee has established that the structure and contents of the curriculum enable students to achieve the programme's intended learning outcomes. The curriculum is cumulative, coherent and well-structured. The curriculum has an academic orientation and at the same time is dominated by an applied and problem-oriented perspective.

The committee confirms that the curriculum and the tutoring system enable students to develop themselves to the required master level. The curriculum combines theory with practice. The courses, case study and research project are organised very interactively.

The highly motivated and qualified staff members running the programme impressed the committee. The committee is convinced of the quality of the staff both in terms of teaching and research. The study load of the programme seems high but the students appreciate the one-year duration and the challenging contents of the programme.

The committee highly commends the support and guidance the programme offers to its students. The range of activities the programme coordinators undertake for the students was impressive. The short informal communication line between students and all staff involved in the teaching activities is admirable, especially considering the distance between Leeuwarden, where the programme takes place and Enschede, where the offices of the lecturers are.

The committee appreciates the different learning methods used in the courses. The committee is of the opinion that the learning method case study is a very innovative learning method and a good example of how to motivate and stimulate students with diverse backgrounds and cultures to learn with and from each other.

Assessment and achieved learning outcomes

The committee assesses Standard 3 for the Master of Environmental and Energy Management as satisfactory.

The committee acknowledges that the programme's assessment system is well-considered. The assessment methods are varied and enable the programme to establish whether students have acquired the intended learning outcomes. The committee has noticed that the feedback provided by staff members is generally good, useful and extensive. The committee establishes that the thesis is the final and cumulative assignment of the programme, in which students show that they have acquired the knowledge, skills and attitude laid down in the intended learning outcomes.

The committee has studied fifteen theses. The committee has determined that the assessments and quality of the theses are adequate and acceptable and that they show the students have acquired the programme's intended learning outcomes. The committee has questions about the appropriate scope of the research project and thesis, the time required to complete it and the role it has in the programme in relation to the academic and practical orientation of the MEEM programme. The committee encourages the programme management to re-examine the role of the research project and thesis in the programme.

Pagina 4 van 7 The committee is of the opinion that students who have finished the MEEM programme have acquired the intended learning outcomes and have very good opportunities for a career in the area of environmental and energy management.

Aanbevelingen

De NVAO onderschrijft de aanbevelingen van het panel aan de opleiding om zich te herbezinnen op de plaats, positie en inhoud van het afstudeerwerk.

Besluit

Ingevolge het bepaalde in artikel 5a.10, derde lid, van de WHW heeft de NVAO het college van bestuur van de Universiteit Twente te Enschede in de gelegenheid gesteld zijn zienswijze op het voornemen tot besluit van 12 augustus 2013 naar voren te brengen. Van deze gelegenheid is geen gebruik gemaakt.

Op grond van het voorgaande besluit de NVAO accreditatie te verlenen aan de wo-master Environmental and Energy Management (65 ECTS; variant: voltijd (postinitiële); locatie: Enschede, Leeuwarden) van de Universiteit Twente te Enschede. De opleiding kent de volgende afstudeerrichtingen: Environmental Management; Energy Management; Water Governance. De NVAO beoordeelt de kwaliteit van de opleiding als voldoende.

Dit besluit treedt in werking op 14 januari 2014 en is van kracht tot en met 13 januari 2018 (2020)¹.

Den Haag, 2 oktober 2013

De NVAO
Voor deze:



R.P. 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.

¹ Gelet op het bepaalde in artikel 18.32c, derde lid, van de Wet op het hoger onderwijs en wetenschappelijk onderzoek (WHW) bedraagt de geldigheidsduur van de accreditatietermijn van de opleiding maximaal vier jaar zolang de instelling nog niet beschikt over een positieve instellingstoets kwaliteitszorg. Zodra de instellingstoets is verkregen, wordt de accreditatietermijn verlengd naar zes jaar.

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	G
2. Onderwijsleeromgeving	Het programma, het personeel en de opleidingsspecifieke voorzieningen maken het voor de instromende studenten mogelijk de beoogde eindkwalificaties te realiseren	G
3. Toetsing en gerealiseerde eindkwalificaties	De opleiding beschikt over een adequaat systeem van toetsing en toont aan dat de beoogde eindkwalificaties worden gerealiseerd	V
Eindoordeel		V

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: Rendementsgegevens van de laatste 3 cohorten.

Cohort	2008	2009	2010
Rendement	89,5 %	100%	79,5%

De gegevens van latere jaren zijn nog niet beschikbaar, omdat het uitgaat van N+1.

Tabel 2: Docentkwaliteit.

Graad	MA	PhD	BKO
Percentage	8%	92%	92%

Tabel 3: Student-docentratio.

Ratio 2011- 2012	1 : 20
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Tabel 4: Contacturen.

Studiejaar	1
Contacturen	>15 uur/week

Toelichting:

Average number of contact hours per study period:

- 1) Course weeks: 284 hours (15 hours / week)
- 2) Case study: 48 hours (variable)
- 3) Research project: 20 hours (variable)

The contact hours for both the case study and the research project can vary per year and per student. For the case study students work independently in groups with guidance of the case study supervisor. Besides the standard contact hours for the introduction of the case study and the weekly guidance, the number of contact hours also depends on how often the group indicates that they need extra supervision. For the research project the contact hours can vary significantly per student. Some students work on their thesis with relatively little supervision whereas others need a lot of extra guidance and help.

- Dr. E. (Elizabeth) Bomberg (chair), senior lecturer and school deputy director of UG Teaching, Politics and International Relations, School of Social and Political Science. University of Edinburgh;
- Prof. K. (Katarina) Eckerberg, professor in Public Administration, Department of Political Science, Umeå University;
- Prof. K. (Kenneth) I. Hanf, professor at the department of Political Science, Pompeu Fabra University, Barcelona;
- Dr. K. (Konrad) Blum, senior lecturer within the Postgraduate Programme Renewable Energy, Energy and Semiconductor Research, Institute of physics, faculty of Mathematics and Science, Carl von Ossietzky Universität Oldenburg;
- A. (Anna) Harnmeijer, double MSc graduate Environmental Science and Environmental Economics, University of Wageningen.

Het panel werd ondersteund door drs. M.D. (Marieke) Textor, secretaris (niet gecertificeerd). Sietze Looijenga, QANU's acting director acted as responsible project co-ordinator.