

Besluit

Besluit strekkende tot een positieve beoordeling van een aanvraag toets nieuwe opleiding van de opleiding wo-master European Master in Sustainable Energy System Management van de Hanzehogeschool Groningen

	Gegevens	
datum	Instelling	: Hanzehogeschool Groningen
31 juli 2015	Opleiding	: wo-master European Master in Sustainable Energy System Management
onderwerp	Variant	: voltijd
Besluit Toets nieuwe opleiding wo-master European Master in Sustainable Energy System Management van de Hanzehogeschool Groningen (003706)	Afstudeerrichtingen	: System Integration & Optimisation; Sustainable Energy Management
uw kenmerk	Locatie	: Groningen
O&O 155003	Studieomvang (EC)	: 90 ¹
ons kenmerk	Datum macrodoelmatigheidsbesluit	: 6 november 2014
NVAO/20152118/SL	Datum aanvraag	: 5 februari 2015
bijlage	Datum locatiebezoek	: 11 juni 2015
2	Datum paneladvies	: 24 juni 2015
	Instellingstoets kwaliteitszorg	: ja, positief besluit van 26 april 2013

De Hanzehogeschool Groningen verzorgt de opleiding in consortiumverband (EUREC: European Renewable Energy Research Centres) met universiteiten in Italië (University of Pisa) en Spanje (University of Zaragoza).

Beoordelingskader

Beoordelingskader voor de beperkte toets nieuwe opleiding van de NVAO (Stcrt. 2010, nr 21523).

Bevindingen

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

¹ De opleiding heeft een omvang van 90 EC en zal, op basis van een positief besluit macrodoelmatigheid, voor 60 EC bekostigd worden; de overige 30 EC neemt de instelling voor eigen rekening.

Samenvatting bevindingen en overwegingen van het panel.

The European Master in Sustainable Energy System Management is offered as a joint European programme by Hanze University of Applied Sciences (HUAS), Groningen, in cooperation with the University of Pisa, Italy, and the University of Zaragoza, Spain. The partnership is embedded in EUREC (European Renewable Energy Research Centers).

Standard 1. Intended learning outcomes

The master programme Sustainable Energy System Management (SESyM) aims to deliver professionals who are able to develop, analyse and assess complicated business cases for energy transition projects and are also able to implement them. The programme targets students with a background in business or economics, who will be able to communicate effectively with technologists on the issues of energy systems. SESyM is a good complement to the technologically oriented EUREC MSc in Renewable Energy, also offered by HUAS. On the basis of the documentation and the interviews during the site visit, the panel concludes that the intended learning outcomes of the programme meet the international requirements of comparable programmes and that the programme used the EUREC partnership effectively to confirm this. The learning outcomes are linked to the Dublin descriptors and appropriate for a master programme. The programme aims to educate 'reflective practitioners' at an academic level who can contribute creative original research during their MSc project. The programme, however, does not constitute a research master, which is also reflected by the 90 EC length of the programme. The panel recommends formulating the academic orientation more explicitly in the intended learning outcomes. The Professional Board has been involved in developing the programme. The panel recommends adding a member from the public sector to cover the whole range of potential employment sectors for the prospective students.

The panel assesses standard 1 'Intended learning outcomes' as satisfactory.

Standard 2. Teaching-learning environment

The curriculum consists of 90 EC, spread over three semesters of 30 EC each. The panel has studied the curriculum and course descriptions and concludes that the structure of the curriculum is well thought out and that the contents enable the students to achieve the intended learning outcomes. The core modules of the first semester provide a firm basis in the field of energy transition and the related themes, preparing students for the specialisation in either Zaragoza or Groningen during the second semester. The third semester allows sufficient time to work on a substantive thesis project. The role of the Academic Board in approving project proposals is a strong point.

Students must spend at least one semester abroad, which fits with the international playing field of the energy market. The possibility of attracting more EUREC partners in SESyM in the future may broaden the options and strengthen the international experience even more.

An admission committee determines if there is a match between the student's expectations, background and motivation and the programme's academic orientation, ambition and multidisciplinary approach. A current point of attention is the entry requirements for admission to the programme. The entry requirement is BSc, which is from September 2015 possibly also from HUAS-level, whereas the MSc explicitly aims at university level. This can

Pagina 3 van 6 create a gap between the different students admitted to the programme. The programme addresses this possible tension with the admission committee that takes into account the broad background of the students. The decision-making procedure leads to transparent decisions, but the panel recommends formulating the criteria more explicitly, so that admissions and rejections can be easier explained to applicants.

The didactical approach aims to encourage students to develop a creative and innovative approach by using multidisciplinary, multi-cultural group work. Teaching methods are a mix of lectures, classes and self-study, combined with tutorials and lab work. The panel recommends working out practical possibilities to bring technology and business students from the two EUREC MSc programmes together in joint activities, as this would strengthen the interdisciplinary nature of the programme.

The information provided and the interviews convinced the panel that the programme staff comprises a good mix of knowledge and experience. External staff is involved purposefully and strategically and includes professors from academic institutions. The intended teacher-student ratio is listed as 1:15, which the panel finds positive.

During the site visit the panel was shown around the research facilities of EnTranCe (Energy Transition Centre). These facilities have, and offer development possibilities for, state-of-the-art equipment for technical student projects, and provide a stimulating environment for SESyM students to work on energy system management oriented applied research projects. Students will have access to the general HUAS student facilities. International students will be assisted by the HUAS International Student Office.

The panel concludes that the curriculum, staff and programme-specific facilities constitute a coherent and attractive teaching-learning environment for the students. This enables the students to achieve the intended learning outcomes.

The panel assesses standard 2 'Teaching-learning environment' as satisfactory.

Standard 3. Assessment

The panel has checked the Teaching and Examination Regulations and found these to be in order. The panel has studied the assessment system and met with the examination committee. The panel concludes that the examination committee is independent and aware of its responsibilities and can be expected to be in control of the quality of assessment of the programme. For the assessment of the master thesis, the examiners are authorised by the examination committee. The panel recommends three examiners in total, including an external examiner who has not been involved in the project, from another department to safeguard academic independence. The examination committee also checks the level of MSc theses after completion. Exams are prepared by two examiners, which is well received by the committee.

The panel assesses standard 3 'Assessment' as satisfactory.

Standard 4. Graduation guarantee and financial provisions

The panel has ascertained that HUAS and the Energy Academy Europe have invested considerably in the master programme SESyM, and is assured that HUAS will guarantee sufficient financial provisions in the case of start-up losses. The panel is, therefore, convinced of the viability of the programme.

Pagina 4 van 6 The panel assesses standard 4 'Graduation guarantee and financial provisions' as satisfactory.

Given these considerations, the panel advises NVAO to take a positive decision regarding the quality of the new European Master in Sustainable Energy System Management offered by Hanze University of Applied Sciences.

The panel recommends the allocation of the programme to the sector Economy.

Advies van het panel

Het panel adviseert de NVAO om positief te besluiten ten aanzien van de kwaliteit van de nieuwe opleiding wo-master European Master in Sustainable Energy System Management van de Hanzehogeschool Groningen.

Aanbevelingen

De NVAO onderschrijft de aanbevelingen van het panel.

Besluit

Ingevolge het bepaalde in artikel 5a.10, tweede lid, van de WHW heeft de NVAO het college van bestuur van de Hanzehogeschool Groningen te Groningen in de gelegenheid gesteld zijn zienswijze op het voornemen tot besluit van 6 juli 2015 naar voren te brengen. Bij e-mail van 7 juli 2015 heeft de instelling ingestemd met het voornemen tot besluit.

De NVAO besluit de aanvraag Toets nieuwe opleiding wo-master European Master in Sustainable Energy System Management (90 EC; variant: voltijd; locatie: Groningen; afstudeerrichtingen System Integration & Optimisation en Sustainable Energy Management) van de Hanzehogeschool Groningen positief te beoordelen.

Graad: Master of Science

Advies Croho-onderdeel: Economie

Van kracht tot en met 30 juli 2021.

Den Haag, 31 juli 2015

De NVAO

Voor deze:



Ann Demeulemeester
(vicevoorzitter)

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	Standaarden	Oordeel
1 Beoogde eindkwalificaties	De beoogde eindkwalificaties van de opleiding zijn wat betreft inhoud, niveau en oriëntatie geconcretiseerd en voldoen aan internationale eisen	V
2 Onderwijsleeromgeving	Het programma, het personeel en de opleidingsspecifieke voorzieningen maken het voor de instromende studenten mogelijk de beoogde eindkwalificaties te realiseren	V
3 Toetsing	De opleiding beschikt over een adequaat systeem van toetsing	V
4 Afstudeergarantie en financiële voorzieningen	De instelling geeft aan studenten de garantie dat het programma volledig kan worden doorlopen en stelt toereikende financiële voorzieningen beschikbaar	V
Algemene conclusie		Voldoende

V = voldoende O = onvoldoende

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- prof. dr. F.M. (Fokko) Mulder, Professor of Materials for Integrated Energy Systems, TU Delft, voorzitter van het panel;
- prof. dr. G. (Gert) Brunekreeft, Professor of Energy Economics, Jacobs Universität, Bremen, panellid;
- prof. dr. ir. Gerrit Brem, Professor of Energy Technology, Technische Universiteit Twente, panellid;
- A. (Arie) van Scheepen, Student wo-master Bestuur en Beleid voor Professionals, Universiteit Utrecht, student-lid.

Het panel werd bijgestaan door Fred Mulder, beleidsmedewerker NVAO, procescoördinator en dr. M. (Marianne) van der Weiden, secretaris (gecertificeerd).