

Getuigschrift

Hoger Beroepsonderwijs

Op grond van artikel 7.10a lid 2 van de Wet op het hoger onderwijs en wetenschappelijk

In accordance with Article 7.10a Section 2 of the Higher Education and Scientific Research Act

onderzoek (Stb. 1992, 593) verklaart de examencommissie van de bachelor opleiding Leraar

(Bulletin of Acts, Orders and Decrees 1992, 593), the Examination Board of the Bachelor's Degree

voortgezet onderwijs van de tweede graad in werktuigbouwkunde I en II van de Christelijke

Programme in Teacher Education in Mechanical Engineering of Windesheim University of Applied

Hogeschool Windesheim dat

Sciences declares that



A4019519

Rense Veenstra

geboren / *born on 29 mei / May 1963 te / in Cuijk En Sint Agatha*

het afsluitend examen van de bachelor opleiding

successfully completed the final examination of the Bachelor's Degree Programme in

Leraar voortgezet onderwijs van de tweede graad in werktuigbouwkunde I en II

Teacher Education in Mechanical Engineering

met als afstudeerrichting / *with as main subject*

Werktuigbouwkundig ontwerpen

Mechanical design

met goed gevolg heeft afgelegd op 25 juni 2015 / *on 25 June 2015*

Op grond daarvan heeft het College van Bestuur de graad Bachelor of Education verleend

Consequently, the Executive Board has awarded the degree of Bachelor (B Ed), which also

en bestaat tevens het recht tot het voeren van de titel baccalaureus (bc.).

entitles holder to make use of the title of Baccalaureus (Bc.).

Voorzitter examencommissie

Chair of the Examination Board

College van Bestuur, namens deze

On behalf of the Executive Board

Geëxamineerde

Examinee

De examenonderdelen zijn in een aparte bijlage vermeld.

The results of the various examination parts are specified in an appendix.

accreditatiedatum 1-1-2011

date of accreditation

Overzicht van de onderdelen van het afsluitend getuigschrift

Document ID A4019519
 Opleiding LVO 2e Gr. Werktuigbouwkunde I en II
 Naam R Veenstra
 Geboortedatum 29 mei 1963 te Cuijk En Sint Agatha

De studielast van de opleiding is 240 ECs, waarvan 60 in de propedeutische fase. De studielast van de postpropedeutische fase van de opleiding is 180 EC's hetgeen overeenkomt met 5040 studie-uren.

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Major-hoofdfase: 2e graads LO Werktuigbouwkunde

| Examenonderdeel | Beoordeling | | EC's |
|---|--------------|--------------|------|
| BSD - Bedrijfsstage opleidingsfase 3 [Deeltijd] | Vrijstelling | Vrijstelling | 20 |
| Hefplateau | 8 | Acht | 3 |
| Klasmanagement/Pedagogisch Handelen | 8 | Acht | 3 |
| M1.A.BA - "Ontwikkelingen in het beroepsonderwijs" - Oriëntatie programma | Voldaan | Voldaan | 10 |
| M1.B - "Ontwikkelingen in het beroepsonderwijs" - Onderwijskundig onderzoek | 8 | Acht | 20 |
| M2 - Vrije minor | Vrijstelling | Vrijstelling | 30 |
| MC4 - Methodisch ontwerpen | 8 | Acht | 2 |
| MC5 - Besturingstechniek | 8 | Acht | 2 |
| MC6 - Wiskunde 3 | 9 | Negen | 2 |
| MCB2 - Bedrijfsleven 2 | Vrijstelling | Vrijstelling | 6 |
| OKCT5 - Onderwijsleerpsychologie/Situationeel begeleiden | 9 | Negen | 3 |
| OKCT6 - Vakdidactiek - onderwijskundige cursus en training | 7 | Zeven | 3 |
| P4 - Project dynamische leeromgeving | 7 | Zeven | 3 |
| PPO2 Bachelor voortgangsgesprek (incl. portfolio) | 7 | Zeven | 6 |
| PPO3 Bachelor eindassessment (incl. portfolio) | 8 | Acht | 4 |
| TC5 - Constructieleer | 7 | Zeven | 2 |
| TC6 - Productietechniek CAD/CAM | 7 | Zeven | 2 |
| TC7 - Werktuigleer 2 | 8 | Acht | 2 |
| TC8 - Klimaatregeling | 8 | Acht | 2 |
| TT1 - 3D modelleren | 7 | Zeven | 2 |
| Behaald: | | | 127 |

Zwolle, 25 juni 2015

Voorzitter examencommissie

Dr. M.J. Stolk

Document ID A4019519
Opleiding LVO 2e Gr. Werktuigbouwkunde I en II
Naam R Veenstra
Geboortedatum 29 mei 1963 te Cuijk En Sint Agatha

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Major-hoofd fase: 2e graads LO Werktuigbouwkunde

| Examenonderdeel | Beoordeling | | EC's |
|--|-------------|----------------------|------|
| TT2 - Werkplaatstechnieken MT-1 | 7 | Zeven | 2 |
| VC1 - Energietechniek | 9 | Negen | 3 |
| VC2 - Materiaalkunde | 7 | Zeven | 2 |
| VC3 - Elektrotechniek, analoog en digitaal | 7 | Zeven | 2 |
| VC4 - Productietechnologie | 7 | Zeven | 2 |
| VC5 - Meet- en regeltechniek | 8 | Acht | 2 |
| VC6 - Vormverandering | 9 | Negen | 2 |
| VC7 - Voortgezette sterkteleer | 7 | Zeven | 2 |
| VT1 - Werktuigbouwkunde - verdieping | 8 | Acht | 15 |
| WER21 - Leerwerkplan | Voldaan | Voldaan | 3 |
| WER22 - Uitvoering | 8 | Acht | 9 |
| WER23 - Evaluatie | 7 | Zeven | 3 |
| WER31 - Leerwerkplan schoolstage en bedrijfsstage opleidingsfase 3 | Voldaan | Voldaan | 1 |
| WER32D - Het uitvoeren van het werkplekleren - Schoolstage opleidingsfase 3 [Deeltijd] | 7 | Zeven | 4 |
| WER33 - Evaluatie schoolstage opleidingsfase 3 | 8 | Acht | 1 |
| | | Behaald: | 53 |
| | | Totaal EC's behaald: | 180 |



A4019519

Zwolle, 25 juni 2015

Voorzitter examencommissie

Dr. M.J. Stolk

Europass diploma

1. Information identifying the holder of the qualification

- 1.1 Last name(s) Veenstra
1.2 First name(s) Rense
1.3 Date of birth (dd/mm/yyyy) 29/05/1963
1.4 Student identification number S1073458

2. Information identifying the qualification

- 2.1 Name of qualification and (if applicable) title conferred
Bachelor of Education
- 2.2 Main field(s) of study for the qualification
Teacher Education in Mechanical Engineering
- 2.3 Name (in original language) and status of awarding institution
Christelijke Hogeschool Windesheim, accredited
- 2.4 Name and status of institution (if different from 2.3) administering studies
Windesheim University of Applied Sciences, accredited
- 2.5 Language(s) of instruction/examination
Dutch and English

3. Information on the level of the qualification

- 3.1 Level of qualification
Bachelor (Bachelor of Education)
- 3.2 Official length of programme duration
Four years, 240 EC's (1 EC equals 28 study hours)
- 3.3 Access requirement(s)
Access to this bachelor is in accordance with article 7.24 Dutch Higher Education Act (WHW) up to and including article 7.30 Dutch Higher Education Act (WHW)

4. Information on the contents and results gained

- 4.1 Mode of study
Part time
- 4.2 Programme requirements
Programme requirements as described in the Course and Examination Regulations (OER)

4.3a Programme competences

Interpersonal competence
 Pedagogical competence
 Subject knowledge and methodological competence
 Organizational competence
 Competence for collaboration with colleagues
 Competence for collaboration with the working environment
 Competence for reflection and development

4.3b Programme details

Programme details (e.g. modules or units studied), and the individual grades/marks/credits obtained

| Propeduse phase - Study units | Date | Credits | Grade |
|---|-------------|----------------|--------------|
| Social safety at school | 01 Sep 2013 | 3 | Exemption |
| Didactic conduct/Presentation and instruction | 01 Sep 2013 | 3 | Exemption |
| Ethics/Drama | 01 Sep 2013 | 3 | Exemption |
| MC1 - Mathematics 1 | 01 Sep 2013 | 2 | Exemption |
| MC2 - Mathematics 2 | 01 Sep 2013 | 2 | Exemption |
| MC3 – Mechanics | 01 Sep 2013 | 2 | Exemption |
| MCB1 - Business 1 | 01 Sep 2013 | 6 | Exemption |
| OKCT4 - Adolescent psychology/Conversation skills | 01 Sep 2013 | 3 | Exemption |
| P2 Renewable energy (technical project) | 01 Sep 2013 | 3 | Exemption |
| PPD Final interview (incl. portfolio) | 01 Sep 2013 | 6 | Exemption |
| TC1 - Strength science | 01 Sep 2013 | 2 | Exemption |
| TC2 - Tool science | 01 Sep 2013 | 2 | Exemption |
| TC3 - Product drawing and documentation | 01 Sep 2013 | 2 | Exemption |
| TC4 - Fluid mechanics | 01 Sep 2013 | 2 | Exemption |
| TT3 - Measurement techniques | 01 Sep 2013 | 2 | Exemption |
| TT4 - Workplace techniques Mt-2 | 01 Sep 2013 | 2 | Exemption |
| WER - Evaluation | 01 Sep 2013 | 3 | Exemption |
| WER - work/study plan | 01 Sep 2013 | 3 | Exemption |
| WER – Implementation | 01 Sep 2013 | 9 | Exemption |
| Main phase - Study units | Date | Credits | Grade |
| BSD Business 3 | 01 Sep 2013 | 20 | Exemption |
| Lifting platform | 01 Sep 2013 | 3 | 8 |
| Class management/pedagogical conduct | 23 Oct 2014 | 3 | 8 |
| M1.A.BA - "Developments in vocational education" - introductory programme | 02 Jul 2014 | 10 | pass |
| M1.B - Developments in vocational education - Didactic research | 30 Mar 2015 | 20 | 8 |
| M2 - Elective minor | 01 Sep 2013 | 30 | Exemption |
| MC4 - Methodical design | 01 Sep 2013 | 2 | 8 |
| MC5 - Control technology | 10 Apr 2014 | 2 | 8 |
| MC6 - Mathematics 3 | 01 Sep 2013 | 2 | 9 |
| MCB2 - Business 2 | 01 Sep 2013 | 6 | Exemption |
| OKCT5 - Didactic psychology/Situational coaching | 01 Sep 2013 | 3 | 9 |
| OKCT6 – Subject-specific didactic course and training | 01 Sep 2013 | 3 | 7 |
| P4 - Project: Dynamic learning environment | 01 Sep 2013 | 3 | 7 |
| PPO2 Bachelor progress interview (incl. portfolio) | 01 Sep 2013 | 6 | 7 |
| PPO3 Bachelor final assessment (incl. portfolio) | 27 May 2015 | 4 | 8 |
| TC5 - Structural Design | 01 Sep 2013 | 2 | 7 |
| TC6 - Production technology CAD/CAM | 01 Sep 2013 | 2 | 7 |
| TC7 - Machinery science 2 | 01 Sep 2013 | 2 | 8 |

| Main phase - Study units | Date | Credits | Grade |
|---|-------------|------------|-------|
| TC8 - Climate control | 01 Sep 2013 | 2 | 8 |
| TT1 - 3D modelling | 01 Sep 2013 | 2 | 7 |
| TT2 - Workplace techniques MT-1 | 01 Sep 2013 | 2 | 7 |
| VC1 - Energy technology | 01 Sep 2013 | 3 | 9 |
| VC2 - Materials science | 01 Sep 2013 | 2 | 7 |
| VC3 - Electrotechnology, analogue and digital | 01 Sep 2013 | 2 | 7 |
| VC4 - Production technology | 01 Sep 2013 | 2 | 7 |
| VC5 - Measurement and control technology | 18 Jun 2014 | 2 | 8 |
| VC6 - Changing forms | 01 Sep 2013 | 2 | 9 |
| VC7 - Secondary strength science | 01 Sep 2013 | 2 | 7 |
| VT1 - Mechanical engineering - Deepening | 26 May 2015 | 15 | 8 |
| WER21 - Internship plan | 01 Sep 2013 | 3 | pass |
| WER22 - Implementation | 01 Sep 2013 | 9 | 8 |
| WER23 - Evaluation | 01 Sep 2013 | 3 | 7 |
| WER31 - School internship plan and business internship training phase 3 | 12 May 2015 | 1 | pass |
| WER32D Implementing workplace learning, school internship, training phase 3 (part time) | 12 May 2015 | 4 | 7 |
| WER33 - Evaluation, school internship training phase 3 | 12 May 2015 | 1 | 8 |
| Total number of ects credits: | | 240 | |

4.4 Grading scheme and, if available, grade distribution guidance

The Dutch grading system, used from primary through to university education, is the 1 to 10 scale given in the following table, in which 10 is the highest grade, 6 the minimum pass, and 1 the lowest grade.

| Official Dutch grading scheme | Additional Windesheim grading scheme | Additional Windesheim grading scheme |
|-------------------------------|---------------------------------------|--------------------------------------|
| 10 (Excellent) | Uitmuntend (Excellent) | Voldaan (Pass) |
| 9 (Very good) | Zeer goed (Very good) | Vrijstelling (Exemption) |
| 8 (Good) | Goed (Good) | |
| 7 (Satisfactory) | Ruim voldoende (More than sufficient) | |
| 6 (Sufficient) | Volgende (Sufficient) | |
| 5-1 (Fail) | | |

4.5 Overall classification of the qualification

Pass

An Associate, Bachelor or Master Degree is awarded a 'pass' either when the grade point average is between 6 and 10 or sufficient or pass; based upon the official Dutch grading scheme.

Cum laude

An Associate, Bachelor or Master Degree is awarded a 'cum laude' when the overall final grade point average is at least 8 (not rounded up) and whereby a minimum grade point average of 6 (sufficient) or higher has been obtained for each examination; all based upon the official Dutch grading scheme and all attained at first attempt.

5. Information on the function of the qualification

5.1 Access to further study

This bachelor's Degree entitles access to the second cycle higher education (annex "The Dutch education system")

5.2 Professional status

Qualified for a profession related to the field of study

6. Additional Information

6.1 Additional information

Not applicable

6.2 Further information sources

Christelijke Hogeschool Windesheim
P.O. Box 10090
8000 GB Zwolle
The Netherlands

<http://www.windesheim.nl>

7. Certification of the supplement

7.1 Date

25-06-2015

7.2 Signature



7.3 Capacity

(Chair of the) Examination Board

7.4 Official stamp or seal

Hogeschool Windesheim
Domein Bewegen en Educatie
Campus 2-6
Postbus 10090
8000 GB Zwolle
T. 088-4699151 www.windesheim.nl

8. Information on the national higher education system

Introduction

The higher education system in the Netherlands is based on a three-cycle degree system consisting of Bachelor's, Master's and PhD degrees. The three-cycle system was officially introduced in the Netherlands at the beginning of the academic year 2002-2003. The Netherlands has a binary system of higher education, which means there are two types of programmes: research-oriented education (wetenschappelijk onderwijs, WO), traditionally offered by research universities, and higher professional education (hoger beroepsonderwijs, HBO), traditionally offered by hogescholen or universities of professional education. For a schematic overview of the education system please refer to the diagram at the end.

Secondary education

Secondary education, which begins at the age of 12 and is compulsory until the age of 16, is offered at several levels. The two programmes of general education that grant admission to higher education are HAVO (five years) and VWO (six years). Pupils are enrolled according to their ability and although VWO is more rigorous, both HAVO and VWO can be characterized as selective types of secondary education. The VWO curriculum prepares pupils for university and only the VWO diploma grants admission to WO. The HAVO diploma is the minimum requirement for admission to HBO. The last two years of HAVO and the last three years of VWO are referred to as the tweede fase or upper secondary education. During these years pupils focus on one of four subject clusters (profielen), each of which emphasizes a certain field of study in addition to satisfying general education requirements. Each cluster is designed to prepare pupils for programmes of study at the tertiary level. A pupil enrolled in VWO or HAVO can choose from the following subject clusters:

- Science and Technology (Natuur en Techniek)
- Science and Health (Natuur en Gezondheid)
- Economics and Society (Economie en Maatschappij)
- Culture and Society (Cultuur en Maatschappij).

Senior secondary vocational education and training

Senior secondary vocational education and training (middelbaar beroepsonderwijs, MBO) is offered in the areas of economics, technology, health, personal care, social welfare and agriculture. MBO programmes vary in length from one to four years as well as in level (1 to 4). Completion of MBO programmes at level 4 qualifies pupils for admission to HBO.

Higher education

Higher education in the Netherlands is offered at two types of institutions: research universities (universiteiten) and universities of professional education (hogescholen). The former include general universities, universities specializing in engineering and agriculture and the Open University. The latter include general institutions and institutions specializing in a specific field such as agriculture, fine and performing arts or teacher training. Universities of professional education are primarily responsible for offering programmes of higher professional education (hoger beroepsonderwijs, HBO), which prepare students for specific professions. These tend to be more practically oriented than programmes offered by research universities. In addition to lectures, seminars, projects and independent study students are required to complete an internship or work placement (stage) which normally takes up part of the third year of study, as well as a final project or a major paper in the fourth year. Since September 2002 the higher education system in the Netherlands has been organized around a three-cycle degree system consisting of Bachelor's, Master's and PhD degrees. At the same time the ECTS credit system was adopted as a way of quantifying periods of study. The higher education system continues to be a binary system however, with a distinction between research-oriented education and professional higher education. The focus of a degree programme determines both the number of credits required to complete the programme and the degree which is awarded. A WO Bachelor's programme requires the completion of 180 credits (3 years) and graduates obtain the degree Bachelor of Arts or Bachelor of Science (BA/BSc), depending on the discipline. An HBO Bachelor's programme requires the completion of 240 credits (4 years) and graduates obtain a degree indicating the field of study, for example Bachelor of Engineering (BEng) or Bachelor of Nursing (BNursing). The old title (pre-2002) appropriate to the discipline in question (bc., ing.) may still be used. WO Master's programmes mostly require the completion of 60 or 120 credits (1 or 2 years). Some programmes require 90 (1.5 years) or more than 120 credits. In engineering, agriculture and math and the natural sciences 120 credits are always required. Graduates obtain the degree of Master of Arts or Master of Science (MA/MSc). The old title (pre-2002) appropriate to the discipline in question (drs., mr., ir.) may still be used. HBO Master's programmes require the completion of 60 to 120 credits and graduates obtain a degree indicating the field of study, for example Master of Social Work (MSW). The third cycle of higher education, leading to a doctor's degree, is offered only by research universities. All research universities in the Netherlands are entitled to award the country's highest academic degree, the doctoraat, which entitles a person to use the title doctor (dr.). The process by which a doctorate is obtained is referred to as the promotie. The doctorate is primarily a research degree, for which a dissertation based on original research must be written and publicly defended. The minimum amount of time required to complete a doctorate is four years.

Requirements for admission to higher education

To enrol in a WO Bachelor's programme a student is required to have a VWO diploma or to have completed the first year (60 credits) of an HBO programme. The minimum admission requirement for HBO is either a HAVO diploma or a level-4 MBO diploma. The VWO diploma also grants admission to HBO. For admission to both types of higher education pupils are required to have completed at least one of the subject clusters that fulfils the requirements for the higher education programme in question. A quota (numerus fixus) applies to admission to certain programmes, primarily in the health sector, and places are allocated using a weighted lottery. Potential students older than 21 years of age who do not possess one of the qualifications mentioned above can qualify for admission to higher education on the basis of an entrance examination and assessment. The only admission requirement for the Open University is that applicants be at least 18 years of age. For admission to all Master's programmes, a Bachelor's degree in one or more specified disciplines is required, in some cases in combination with other requirements. Graduates with an HBO Bachelor's degree may have to complete additional requirements for admission to a WO Master's programme.

Credit system and grading

A student's workload (both contact hours and hours spent studying and preparing assignments) is measured in ECTS credits (studiepunten). According to Dutch law one credit represents 28 hours of work and 60 credits represents one year of full-time study. The grading system has remained the same for several decades: the scale is from 1 (very poor) to 10 (outstanding). The lowest passing grade is 6; 9s are seldom given and 10s are extremely rare. Sometimes decimal points are used (e.g. 7.8).

Accreditation and quality assurance

A guaranteed standard of higher education is maintained through a national system of legal regulation and quality assurance. The Ministry of Education, Culture and Science is responsible for legislation pertaining to education. As of 2002 responsibility for accreditation lies with the Netherlands-Flemish Accreditation Organization (NVAO). According to the section of the Dutch Higher Education Act that deals with the accreditation of higher education, degree programmes offered by research universities and universities of professional education will be evaluated according to established criteria and programmes that meet those criteria will be accredited, i.e. recognized for a period of six years. Only accredited programmes are eligible for government funding, students receive financial aid only when enrolled in an accredited programme and students will graduate with a recognized degree only after having completed an accredited degree programme. Accredited programmes are listed in the Central Register of Higher Education Study Programmes (CROHO) and the information is available to the public. Institutions are autonomous in their decision to offer non-accredited programmes, subject to internal quality assessment. These programmes do not receive government funding.

8. Information on the national higher education system

The higher education system in the Netherlands is based on a three-cycle degree system, consisting of a bachelor, master and PhD. Two types of programmes are offered: research-oriented degree programmes offered by research universities and professional higher education programmes offered by universities of applied sciences.

