



This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

- 1. Information identifying the holder of the qualification
- 1.1 Last name(s)
- 1.2 First name(s)
- 1.3 Date of birth
- 1.4 Student identification number / code
- 2. Information identifying the qualification
- 2.1 Name of qualification and (if applicable) title conferred (in original language): Getuigschrift Hoger Beroepsonderwijs (Degree Certificate of Higher Professional Education); Degree: Bachelor of Science; Nationally accepted title: Ingenieur (ing.)
- 2.2 Main field(s) of study of the qualification: Mens en Techniek (Health Technology), registered in the "Centraal register obleidingen hoger onderwijs" (CROHO) Central Register of Higher Edu Main Subject : Orthc
- 2.3 Name and stan institution (in original language): Fontys Hoges Higher Educat
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- 2.5 Language of instruction/exan.... Dutch
- 3. Information on the level of the qualification

3.1 Level of qualification:

Bachelor's Degree; University of Applied Sciences; First cycle National Qualifications Framework for Higher Education; Level 6 EQF for LLL.

- 3.2 Official duration of programme in credits and/or years: 4 years; study load in ECTS-credits: 240
- 3.3 Access requirement(s):

- 4. Information on the programme completed and the results obtained
- 4.1 Mode of study:

Full-time, including work placements and / or research

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4.2 Programme learning outcomes:

The degree programme prepares students for the particular profession in Engineering. The study programme aims to achieve the following competences:

- 1. Orthopaedic engineering activities
- 2. Design and manufacture
- 3. Justification.

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sul

- 4. Communication

tentamen'. This is a written or oral test in one subject. programme. A cluster of 'tentamens' in one or related of study).

sentations, reports and during the traineeship / requirements of programmes, the report from the

traineeship / internship and the graduation project of the main subject must be approved.

4.3 Programme details, individual credits gained and grades/marks obtained (if this information is available in an official transcript this should be used here):

The first year of every programme is referred to as the 'propedeuse', which provides students with introductory courses fundamental to the discipline in question. In addition to lectures, seminars, and independent study, students are required to complete an internship or work placem as well as a final project or a thesis, in the fourth year

4.4 Grading system and, if available, grade distributio
Grading system in the Netherlands

Dutch grades range from 1 (very poor) to 10 (outstanc given. On final lists, grades are normally rounded off (5.5 equals a 6 equals a pass, whereas a 5.4 equals a get a grade that has not been rounded off. The Dutch grad

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Poor

Very Poor

is and 10s are rarely bunded down, thus a it is customary to

get a grade that has not been rounded off. The Dutch grading system is listed in the table below.

Grade	In words NL	Abbr. NL	Meaning EN	Abbr. EN	Expression NL	Abbr. NL	Meaning EN	Abbr. EN
10	Uitmuntend	U	Outstanding	0	Behaald	BEH	Pass	PA
9	Zeer Goed	ZG	Very Good	VG	Niet Behaald	NB	Fail	F
<u>6</u> 00)00000	000		000	00000	000	000	000
5	00000	1 21 28	Satistactory	000	00000	000	000	00(
<u>6</u> 00 5	Onvoldoende	000		000(10	00000	000	000	000

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Grade Distribution Table

Slecht

Zeer slecht

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Study programme: Reference group: 3 Fontys School: For	3 previous academ	Technology, register number 30039 nic 000000000000000000000000000000000000
Grade:	5.5-6.4	
%	36.0%	
Cum. %	100.0%	64.0% 52.0% 12.0% 2.0%

See: https://www.fontys.nl/GradeDistribution for information on the Grade Distribution at Fontys Hogescholen.

4.5 Overall classification of the qualification (in original language): met goed gevolg (Successfully)





Kortenaerkade

- Information on the function of the qualification 5.
- 5.1 Univ Shor 5.2 Prof
- HBO study, ation.

10 several types of further study:

ctoraat'(the highest degree awarded by Dutch universities); niversity 'getuigschrift'; Post-HBO courses of varying length.

sion in theoretical and practical environment without further

Additional information 6.

6.1 Additional information:

Further information sources: 6.2

For general information about Fontys: http://wwwoooooo For information in the English language: http://fc000000 Further information on Higher Professional Educ 11, P.O. Box 29777, 2502 LT Den Haag, The No.

1

There is also an important site on the Recognition of Diplomas: http://ec.europa.eu/education

- 7. Certification of the supplement
- 7.1 Date
- 7.2 Signature
- 7.3 Capacity 7.4 Official stamp or seal :

8. Information on the Dutch higher education system: See enclosed information





Diploma Supplement Transcript of Credits (see No. 4.2/4.3.)

DEGREE PROGRAMI

Last name(s) First name(s) Date of birth (day/month/year) Date of qualification Student identification number Certificate identification number

16 November 2020

-2020-11-013503

Main Subject Minor

Course components

Code	Subject name	Subject name in English	Date	Grades	ECTS
5 8 8	Cohort 2014 jaar 1	Cohort 2014 year 1	S. S. S. S.		S. S.
OP14A	Cluster medisch OP1	Cluster medical EP1	07/11/2014	6.3	3
OP14A1	Fysiologie	Physiology	07/11/2014	6.3	3
OP14B	Cluster orthopedisch OP1	Cluster orthopaedic EP1	13/11/2014	8.4	4
OP14B1	Innoveren	Innovating	10/11/2014	8.5	2
OP14B2	Introductieproject 1	Introductionproject 1	13/11/2014	8.2	2
OP14C	Cluster technisch OP1	Cluster technical EP1	13/07/2015	7.4	3

0P14F4	Sociale vaardigheden 2	Social skills 2	30/01/2015 / 1
OP14F5	Studieloopbaanbegeleiding 1.1	Study guidance 1 1	07/11/2014 7 0.5
OP14F6	Studieloopbaanbegeleiding 1.2	Study guidance	
OP14G	Cluster technisch OP2	Cluster technical	
OP14G1	Biostatica	DIOSIAIICS	
OP14G2	Mechanica 1 interactive physics	INIECTIONICS I IN	
OP14G3	Mechanica 1 theorie	Mechanics 1 th	000000000000000000000000000000000000000
OP14H	Cluster wetenschappelijk OP2		000000000000000000000000000000000000000
OP14H1	Vaardigheden onderzoek	Research skills00000000	000000000000000000000000000000000000000
OP14I	Cluster sociaal OP3	Cluster social EP 00000000	000000000000000000000000000000000000000
OP14I1	FPH-project	FPH-project 0000000	000000000000000000000000000000000000000
OP14J	Cluster technisch OP3	Cluster technical 00000000	000000000000000000000000000000000000000
OP14J1	Biomechanica 1	Biomechanics 00000000	000000000000000000000000000000000000000
OP14J2	Tekenen / CAD 1	Drawing / CAD 00000000	000000000000000000000000000000000000000
OP14K	Cluster medisch OP4	Cluster medical E	
OP14K1	Analyseopdracht gangbeeldanalyse	Analysis assignment gait analy	sis 13/04/2015 6 0.5

Code	Subject name	Subject name in English	Date	Grades	ECTS
OP14K2	Het gaan volgens Perry	000000000000000000000000000000000000000	000000	0000	
OP14K3	Gangbeeldanalyse				
OP14K4	Inspanningsfysiologie 1)00000000000000000000000000000000000000	000000	0000	0000
OP14K6	Inspanningsfysiologie practicum	000000000000000000000000000000000000000	00000		
OP14L	Cluster of thopedisch OF4				
OP14L1	Adviseren)00000000000000000000000000000000000000	000000)000C	0000
OP14L2	Ordh an a dia sha ta ah a al aria, an danata	000000000000000000000000000000000000000			
OP14L3	extremiteiten 1 2	000000000000000000000000000000000000000			
OP14L4	Prakt jk orthopedische technologie 2)00000000000000000000000000000000000000	000000	υυυυι	10000
OP14L5		000000000000000000000000000000000000000	000000	0000	$h \cap \cap \cap (h)$
OP14L6	Project dag				
OP14M	Cluster sociaal OP4)00000000000000000000000000000000000000	000000	υυυυι	10000
OP14M5	Studieloopbaanbegeleiding 2.2	000000000000000000000000000000000000000	00000	0000	1000
OP14M1	Methodisch handelen ondracht				
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OTHO14A2	Functionele anatomie onderste ledematen OL	Functional anatomy LL	28/01/2019	6.7	2
OTHO14B	Prakt jk uitvoeringstechnieken 1.1	Practical construction techniques 1.1	05/04/2018	6.1	4
OTHO14B1	Uitvoeringstechnieken algemene orthopedie 1.1	Construction techniques general orthopedics 1.1	05/04/2018	6.1	4
OTHO14C	Prakt jk uitvoeringstechnieken 1.2	Practical construction techniques 1.2	05/04/2018	6.6	4
OTHO14C1	Uitvoeringstechnieken algemene orthopedie 1.2	Construction techniques general orthopedics 1.2	05/04/2018	6.6	4
OTHO14D	Anatomie en pathologie werve kolom	Anatomy and pathology spine	20/09/2016	6.1	4
OTHO14D1	Rewegingsannaraat wervelkolom	Locomotor system spine	05/04/2016	61	1 4

OTHO14I	Anatomie bovenste ledematen	Anatomy upper limb	25/04/2019 6.9 4
OTHO14I1	Bewegingsapparaat bovenste ledematen	Locomotor system upper limb	25/04/2019 6.9 3
OTHO14I2	Functionele anatomie bovenste ledematen		000000000000000000000000000000000000000
OTHO14J	Pathologie bovenste ledematen ledematen	000000000000000000000000000000000000000	00000000000000000000000000000000000000
OTHO14J1	Pathologie & revalidatie bovenste ledematen		000000000000000000000000000000000000000
OTHO14K	Orthopedische technologie bovenste ledematen	Orthope 000000000000000000000000000000000000	000000000000000000000000000000000000000
OTHO14K1	Orthesen bovenste ledematen theorie	Ortho	000000000000000000000
OTHO14K2	Prothesen bovenste ledematen	Prostheses upper limb	01/07/2016 6.6 2





Code	Subject name	Subject name in English	Date	Grades	ECTS
OTHO14L	Prakt jk orthopedische technologie 2.1	Practical orthopedic technology 2.1	01/07/2016	7.4	8
OTHO14L1	Uitvoeringstechnieken orthopedische technologie 2.1	Construction techniques orthopedic technology 2.1	01/07/2016	7.4	7
OTHO14L2	Digitale maatname	Digital measurement	01/07/2016	7	1
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010143D1	Onderzoeksmethoden OT	Research methods OT	22/01/2018	7.4	4
010143D2	Stage 2 OT	Clinical affiliation	01/09/2017	8.0	11
01O143F	Orthopedische Technologie en Technologie	Orthopaedic technology and Technology	24/06/2019	PA	30
010143F1	Capita Selecta OT	Capita Selecta OT	12/05/2017	7.2	15
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<mark>010</mark> 0000	000000000000000000000000000000000000000	00000000 in combination with	12/05/2017	8.2	3
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0100000	000000000000000000000000000000000000000	00000000	12/05/2017	7.8	3
0100000	000000000000000000000000000000000000000	evelopment	12/05/2017	5.8	3
010		ie Technology	24/06/2019	7.6	15
0100000		100000000 tlitude	24/05/2017	8.0	12. 6
01O143F2B	Kennistoets	Knowledge test	24/06/2019	8.0	37. 8
010143F2C	Beroepsproduct	Advisory report	29/06/2017	6.0	12. 6
	Afstudeerfase jaar 4	Graduation phase year 4			
OTHO144B	Afstudeerstage OT	Graduation internship OT	24/08/2020	8.6	30

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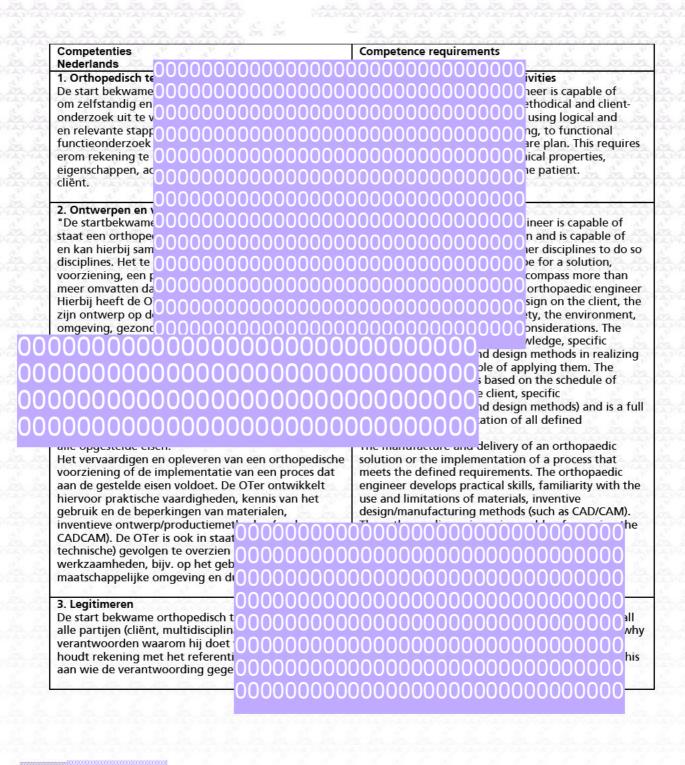




Diploma Supplement Appendix Competences

DEGREE PROGRAMME (registration number and name: Valid for qualificatio

echnology lens en Techniek'') er 2020



4. Communiceren feiten, ideeën of mer maken, gebruikmake gebaren en non-verb hij het onderwerp afs Daarnaast kan hij op manier communicere worden gemaakt of t genomen.

5. Collaboration

5. Samenwerken

De start bekwame orthopedisch technoloog is in staat The qualified orthopaedic engineer is capable of om naast zijn inhoudelijke capaciteiten samen te collaborating, in addition to using his specific professional skills. This means: contributing to a werken. Dat wil zeggen: bijdragen aan een gezamenlijk resultaat door een optimale afstemming shared result through optimal coordination of tussen de eigen kwaliteiten en belangen en die van personal qualities and interests and those of a group een groep of een collega. Een samenwerken in een multidisci team. Dus met verschillende di vakgebieden waarbij ieder zijn 000 inbrengt komen tot een gezan 000 nnn 0000 000000 6. Ondernemerschap 000De start bekwame orthopedisc zich in voor een kwalitatief go 0000 00000000000 orthopedisch technoloog neen betrekking tot het gebruik of 🧶 en medewerkers, het stellen va 000 prioriteiten en het maken van zijn eigen werk waarbij hij bal beroepsmatig handelen en de ontwikkeling van zichzelf en de zorgorganisatie

waarin hij werkt. Hierin is hij ook in staat om mee te denken over de financiële bedrijfsvoering, en kan hij zelfstandig declareren en 🧭

is also capable of contributing to financial operations, is capable of independently billing and maintaining contacts with health insurance companies, insurers

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petrokken partijen en/or ci

krachtenveld van externe parmers, zorgvenener en cliënt. Daarnaast heeft hij een ondernemende heuding

Auunonany, ne has an ennepreneuriar attitude and aims to improve the company and build a network.

er 8. D lays research with: an bl cnowledge O the drive to ee vallo ()()Association of

her zen winen uben van onderzoek. De vereniging Hogescholen (2014) specificeert onderzoek voor het hbo-onderwijs als het methodisch beantwoorden van

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Universities of Applied sciences (vereniding Hogescholen) (2014) defines research for universities of applied sciences as methodically answering

> is always related to the manufacture of a onal product, such as an advisory report, a report, a product design or a physical end-Research at universities of applied sciences working methodically on such professional

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The education system of the Netherlands

The Dutch education system consists of eight years of primary education, a diversified secondary education system with different tracks and a binary higher education system.

Primary and secondary education

Children are allowed to begin school at the age of four, but are not legally required to do so until the age of five. Secondary education, which begins at the age of twelve and is compulsory until the age of sixteen, is diversified and offered at different levels. *Vmbo* programmes (four years) combine general and vocational education. Only the six-year vwo diploma grants access to bachelor's programmes at research universities; the vwo diploma, havo diploma and the highest level of *mbo* grant access to bachelor's programmes at universities of applied sciences (hogescholen).

The last two years of havo and the last three years of vwo are referred to as the 'second phase' (tweede fase), or upper secondary education. During these years, pupils focus on one of four subject clusters (profielen): 1) Science and Technology (Natuur en Techniek); 2) Science and Health (Natuur en Gezondheid); 3) Economics and Society (Economie en Maatschappij); 4) Culture and Society (Cultuur en Maatschappij).

Higher education

Higher education in the Netherlands is offered at research universities and universities of applied sciences. In this binary, three-cycle system, bachelor's, master's and PhD degrees are awarded. Short cycle higher education leading to the associate's degree is offered by universities of applied sciences (part of the first cycle). Universities of applied sciences are increasingly offering three-year bachelor programmes for students with a vwo diploma.

Workload is measured in ECTS credits. According to Dutch law, one credit represents 28 hours of work. The grading system used in the Netherlands is on a scale from 1 (very poor) to 10 (outstanding). The lowest passing grade is 5.5 or 6; 5; 9s are seldom given and 10s are extremely rare. For certain subjects the assessment pass/fail is used. The academic year is 42 weeks long.

The third cycle of higher education, leading to a PhD, is offered only by research universities, while the three engineering universities offer technological designer programmes leading to an Engineering Doctorate (EngD). A Professional Doctorate offered by *hogescholen* is currently being developed.

Quality assurance and accreditation

Quality assurance is carried out through a system of accreditation, administered by the <u>Accreditation Organisation of the Netherlands and Flanders (NVAO)</u>. Higher education programmes are accredited for a period of six years and eligible for government funding. All accredited programmes are listed in the Central Register of Higher Education Study Programmes (CROHO).

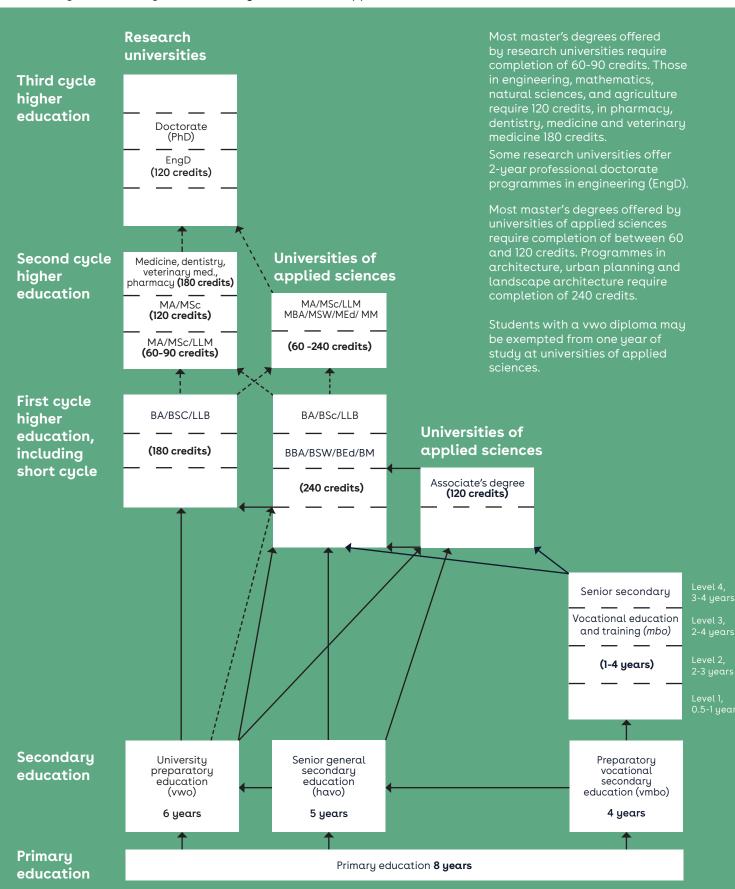
National Qualifications Frameworks

The qualifications framework in the Netherlands is referred to as the Dutch Qualifications Framework (NLQF) and was officially referenced to the EQF in 2012. Further information on the Dutch Qualifications Framework can be found on the website of the <u>National Coordination Point</u> <u>NLQF</u>.

Update June 2023 The Dutch 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 (including associate degrees) offered by universities of applied sciences.





dotted arrow (--- \rightarrow) indicates that some form of selection or bridging requirement may be applied