

Curriculum bachelor programma Technische Natuurkunde voor studentgeneratie 2018

Eerste collegejaar (B1 2018)

Module-code	Nederlandse naam	Engelse naam ¹	Min. cijfer	Weging	EC
201800157	TN MOD01 Dynamica en Relativiteit	Dynamics and Relativity	5.5		15.0
	<i>Dynamica en Relativiteit</i>	<i>Dynamics and Relativity</i>	5.5	35%	5.0
	<i>Calculus 1</i>	<i>Calculus 1</i>	5.5	30%	4.0
	<i>Experimenteren 1</i>	<i>Lab Course 1</i>	5.5	10%	1.5
	<i>Programmeren en Dataverwerking 1</i>	<i>Programming and Data Processing 1</i>	5.5	10%	2.0
	<i>Project Dynamica en Relativiteit</i>	<i>Project Dynamics and Relativity</i>	5.5	15%	2.5
201800158	TN MOD02 Thermodynamica	Thermodynamics	5.5		15.0
	<i>Thermodynamica</i>	<i>Thermodynamics</i>	5.5	30%	4.0
	<i>Calculus 2</i>	<i>Calculus 2</i>	5.5	25%	4.0
	<i>Experimenteren 2</i>	<i>Lab Course 2</i>	5.5	10%	2.0
	<i>Programmeren en Dataverwerking 2</i>	<i>Programming and Data Processing 2</i>	5.5	10%	1.0
	<i>Project Thermodynamica</i>	<i>Project Thermodynamics</i>	5.5	25%	4.0
201700164	TN MOD03 Elektromagnetisme en Meten	Electromagnetism and Measurements	5.5		15.0
	<i>Elektriciteit en Magnetisme</i>	<i>Electromagnetics</i>	5.5	35%	5.0
	<i>Vector Calculus</i>	<i>Vector Calculus</i>	5.5	15%	2.0
	<i>Instrumentatie</i>	<i>Instrumentation</i>	5.5	25%	4.0
	<i>Analytisch Programmeren</i>	<i>Analytical Programming</i>	5.5	10%	1.0
	<i>Project Elektromagnetisme en Meten</i>	<i>Project Electromagnetism and Measurements</i>	5.5	15%	3.0
201700165	TN MOD04 Quantum en Geometrische Optica	Quantum and Geometrical Optics	5.5		15.0
	<i>Quantum Materie</i>	<i>Quantum Matter</i>	5.5	35%	5.0
	<i>Lineaire Algebra</i>	<i>Linear Algebra</i>	5.5	20%	3.0
	<i>Geometrische Optica</i>	<i>Geometrical Optics</i>	5.5	15%	2.5
	<i>Engineering Systems</i>	<i>Engineering Systems</i>	5.5	30%	4.5
Totaal eerste collegejaar					60

¹ Zoals op het diplomasupplement wordt getoond

Tweede collegejaar (B2 2019)

Module-code	Nederlandse naam	Engelse naam	Min. Cijfer	Weging	EC
201800159	TN MOD05 Signalen. Modellen en Systemen	Signals. Models and Systems	5.5		15.0
	<i>Signals</i>	<i>Signals</i>	5.5	27%	4.0
	<i>Models</i>	<i>Models</i>	5.5	27%	4.0
	<i>Project Signalen. Modellen en Systemen</i>	<i>Project Signals. Models and Systems</i>	5.5	19%	3.0
	Keuze 1 van 2:	Elective 1 of 2			
	<i>Klassieke Mechanica</i>	<i>Classical Mechanics</i>	5.5	27%	4.0
	<i>Engineering Solid Mechanics</i>	<i>Engineering Solid Mechanics</i>	5.5	27%	4.0
201500155	TN MOD06 Golven. Interferentie en Waarschijnlijkheid	Waves. Interference and Probability	5.5		15.0
	<i>Optica</i>	<i>Optics</i>	5.5	47%	7.0
	<i>Quantummechanica</i>	<i>Quantum Mechanics</i>	5.5	40%	6.0
	<i>Hilbertruimte</i>	<i>Hilbert Space</i>	5.5	13%	2.0
201600067	TN MOD07 Fysica van Gecondenseerde Materie	Condensed Matter Physics	5.5		15.0
	<i>Inleiding Vastestoffysica</i>	<i>Introduction Solid State Physics</i>	5.5	47%	7.0
	<i>Statistische Fysica</i>	<i>Statistical Physics</i>	5.5	40%	6.0
	<i>Partiële Differentiaalvergelijkingen</i>	<i>Partial Differential Equations</i>	5.5	13%	2.0
201600068	TN MOD08 Continuüm Dynamica	Continuum Dynamics	5.5		15.0
	<i>Vloeistoffysica</i>	<i>Fluid Physics</i>	5.5	47%	7.0
	<i>Elektrodynamica</i>	<i>Electrodynamics</i>	5.5	40%	6.0
	<i>Numerieke Methoden voor PDV</i>	<i>Numerical Methods for PDE</i>	5.5	13%	2.0
Totaal derde jaar					60

Derde collegejaar (B3 2020)

Cursuscode	Nederlandse naam	Engelse naam	EC
-	Minor/profilering	Minor/profilering	30.0
	TN MOD11 Oriëntatie Module	Orientation	15.0
202000709	<i>Vorbereiding Bacheloropdracht</i>	<i>Preperation Bachelor's Assignment</i>	5.0
	Keuzevakken 10 EC:	Elective courses 10 EC	
202000710	<i>Fysische Materiaalkunde</i>	<i>Materials Science</i>	5.0
202000711	<i>Technische Optica</i>	<i>Technical Optics</i>	5.0
202001416	<i>Remote Control of Experiments²</i>	<i>Remote Control of Experiments</i>	2.5/5.0
202001416	<i>Computational Physics</i>	<i>Computational Physics</i>	2.5/5.0
202000714	<i>Machine Learning</i>	<i>Machine Learning</i>	3.0/5.0
202001413	<i>Soft Matter Physics</i>	<i>Soft Matter Physics</i>	5.0
202000715	TN MOD12 Bacheloropdracht	Bachelor's Assignment	15.0
	<i>Algemene Aspecten (50%)</i>	<i>General Aspects (50%)</i>	7.5
	<i>Fysische Aspecten (50%)</i>	<i>Physical Aspects (50%)</i>	7.5
Totaal derde collegejaar			60

² Werknaam cursus in ontwikkeling