

2019

Afrikaans

Programverteenwoordigers
Program representatives

English

LASERFISIKA (Fisiese)

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LASER PHYSICS (Physical)

KERNFISIKA

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NUCLEAR PHYSICS

STRALINGS- EN GESONDHEIDSFISIKA

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RADIATION AND HEALTH PHYSICS

Toelatingsvereistes:

- Afrikaans of Engels (Huistaal of Eerste Addisionele Taal) 4
- Wiskunde 6
- Fisiese Wetenskappe 4

Admission requirements:

- Afrikaans or English (Home Language or First Additional Language) 4
- Mathematics 6
- Physical Sciences 4

1ste jaar: kurrikulum 5	(140 krediete/credits)	1st year: curriculum 5
Chemie	124(16), 144(16)	Chemistry
Fisika	114(16), 144(16)	Physics
Rekenaarwetenskap	114(16), 144(16)	Computer Science
Wiskunde	114(16), 144(16)	Mathematics
Wetenskap in Konteks	178(12)	Science in Context

of/or

1ste jaar: kurrikulum 6	(140 krediete/credits)	1st year: curriculum 6
Chemie	124(16), 144(16)	Chemistry
Fisika	114(16), 144(16)	Physics
Toegepaste Wiskunde	144(16)	Applied Mathematics
Wiskunde	114(16), 144(16)	Mathematics
Waarskynlikheidsleer en Statistiek	114(16)	Probability Theory and Statistics
Wetenskap in Konteks	178(12)	Science in Context

of/or

1ste jaar: kurrikulum 7	(140 krediete/credits)	1st year: curriculum 7
Fisika	114(16), 144(16)	Physics
Rekenaarwetenskap	114(16), 144(16)	Computer Science
Wiskunde	114(16), 144(16)	Mathematics
Waarskynlikheidsleer en Statistiek	114(16)	Probability Theory and Statistics
Toegepaste Wiskunde	144(16)	Applied Mathematics
Wetenskap in Konteks	178(12)	Science in Context

2de jaar kurrikulum Verpligte modules	(133 krediete/credits) (69 krediete/credits)	2nd year curriculum Compulsory modules
Fisika	224(16), 254(16)	Physics
Wiskunde	214(16), 244(16)	Mathematics
Wetenskaplike Berekening	272(5)	Scientific Computing

Plus

'n Keuse uit die volgende modules afhange van die eerstejaarskurrikulum wat gevolg is en met inagneming van watter addisionele hoofvakmodules in die derde jaar gevolg gaan word. **(Let wel:** Indien Fisika 214 en 244 gevolg word, kan daar in derde jaar oorgeskakel word na Teoretiese Fisika.)

A choice from the following modules, depending on the first-year curriculum taken, as well as the additional major subject modules that will be taken in the third year: **(Please note:** A student may, in the third year, change to Theoretical Physics if Physics 214 and 244 have been taken.)

Keusemodules	(64 krediete/credits)	Elective modules
Toegepaste Wiskunde	214(16), 244(16)	Applied Mathematics
Chemie	214(16), 234(16), 254(16), 264(16)	Chemistry
Rekenaarwetenskap	214(16), 244(16)	Computer Science

3de jaar kurrikulum Opsie 1 Verpligte modules	Minimum 133, maksimum 141 krediete Minimum 133, maximum 141 credits. (69 krediete/credits)	3rd year curriculum Option 1 Compulsory modules
Fisika	314(16), 334(16), 342(8), 352(8), 384(16)	Physics
Wetenskaplike Berekening	372(5)	Scientific Computing

Plus

'n Keuse van 64 krediete uit die volgende vakke, afhange van die keusemodules wat in die tweede jaar gevolg is.

A choice of 64 credits from the following modules, dependent on the choice of modules taken in the second year.

Keusemodules	(64 krediete/credits)	Elective modules
Chemie	314(16), 324(16), 344(16), 364(16)	Chemistry

of/or

Toegepaste Wiskunde	324(16), 354(16), 364(16)	Applied Mathematics
en/and		
Wiskunde	324(16)	Mathematics

Opsie 2 Verpligte modules	Minimum 133, maksimum 141 krediete Minimum 133, maximum 141 credits. (101 krediete/credits)	Option 2 Compulsory modules
Fisika	314(16), 334(16), 342(8), 344(16), 352(8), 384(16)	Physics
Toegepaste Wiskunde	364(16)	Applied Mathematics
Wetenskaplike Berekening	372(5)	Scientific Computing

Plus

Keusemodules	(min 32 max 40 krediete/credits)	Elective modules
Fisika	372(8)	Physics
Rekenaarwetenskap	314(16), 315(16), 334(16), 344(16)	Computer Science
Toegepaste Wiskunde	324(16), 354(16)	Applied Mathematics
Wiskunde	314(16), 324(16), 325(16), 365(16), 378(32)	Mathematics

Opsie 3 Verpligte modules	Minimum 133, maksimum 141 krediete Minimum 133, maximum 141 credits. (101 krediete/credits)	Option 3 Compulsory modules
Fisika	314(16), 334(16), 342(8), 344(16), 352(8)	Physics
Wetenskaplike Berekening	372(5)	Scientific Computing
Wiskunde	314(16), 324(16), 344(16), 365(16), of/or 314(16), 324(16), 378(32)	Mathematics

Let wel:

- **Opsie 1** lei na 'n honneursprogram in Fisika en ook na 'n honneursprogram in Chemie of in Toegepaste Wiskunde.
- **Opsie 2** lei na 'n honneursprogram in Fisika en ook na 'n honneursprogram in Fisiese en Wiskundige Analise (FWA).
- **Opsie 3** lei na 'n honneursprogram in Fisiese en Wiskundige Analise (FWA) en ook na 'n honneursprogram in Wiskunde.

Please note:

- **Option 1** leads to an honours programme in Physics and also to an honours programme in Applied Mathematics or in Chemistry.
- **Option 2** leads to an honours programme in Physics and also to an honours programme in Physical and Mathematical Analysis.
- **Option 3** leads to an honours programme in Physical and Mathematical Analysis and also to an honours programme in Mathematics.