



Preparatory programme for students having obtained the Master diploma of UHasselt/KU Leuven “Master in de industriële wetenschappen: nucleaire technologie”

When obtained the diploma “Master in de industriële wetenschappen: nucleaire technologie” students can join the BNEN programme, provided they follow the preparatory programme described below (29 credits):

1. H08W4A (3 ECTS - W. D'haeseleer)
Fluid Mechanics / Fluidummechanica
https://onderwijsaanbod.kuleuven.be/syllabi/v/e/H08W4AE.htm#activetab=doelstellingen_idp1627360
<http://onderwijsaanbod.kuleuven.be/syllabi/n/H08W4AN.htm>
2. H08W5A (3 ECTS – W. D'haeseleer)
Heat Transfer / Warmteoverdracht
https://onderwijsaanbod.kuleuven.be/syllabi/v/e/H08W5AE.htm#activetab=doelstellingen_idp605584
<http://onderwijsaanbod.kuleuven.be/syllabi/n/H08W5AN.htm>
3. H01N2A (6 ECTS – M. Baelmans)
Energy Conversion Machines and Systems / Energieconversiemachines en systemen
https://onderwijsaanbod.kuleuven.be/syllabi/v/e/H01N2AE.htm#activetab=doelstellingen_idp1458496
<http://www.kuleuven.ac.be/onderwijs/aanbod/syllabi/H01N2AN.htm>
4. H0M71A (5 ECTS) M. Van Barel
Numerical Mathematics / Numerieke wiskunde
https://onderwijsaanbod.kuleuven.be/syllabi/v/e/H0M71AE.htm#activetab=doelstellingen_idp61424h
<http://www.kuleuven.ac.be/onderwijs/aanbod/syllabi/H0M71AN.htm>
5. H0M69A (6 ECTS – R. Cools)
Applied Algebra and Differential Equations / Toegepaste algebra en differentiaalvergelijkingen
https://onderwijsaanbod.kuleuven.be/syllabi/v/e/H0M69AE.htm#activetab=doelstellingen_idm1177616
<http://www.kuleuven.ac.be/onderwijs/aanbod/syllabi/H0M69AN.htm>
6. H01M8A (6 ECTS – B. De Moor)
System Theory and Control Theory / Systeemtheorie en regeltechniek
https://onderwijsaanbod.kuleuven.be/syllabi/v/e/H01M8AE.htm#activetab=doelstellingen_idp2651360
<http://www.kuleuven.ac.be/onderwijs/aanbod/syllabi/H01M8AN.htm>

Students can also take some BNEN courses in parallel if they wish.

Following exemptions can be allowed for students with a diploma of “Master in de industriële wetenschappen: nucleaire technologie” (UHasselt/KU Leuven):

- Introduction to Nuclear Physics & Measurements
- Radiation Protection (the basic part) → On the condition the elective course “Advanced Radiation Protection” is followed.