



university of
groningen

university college groningen

Physics of Energy at UCG

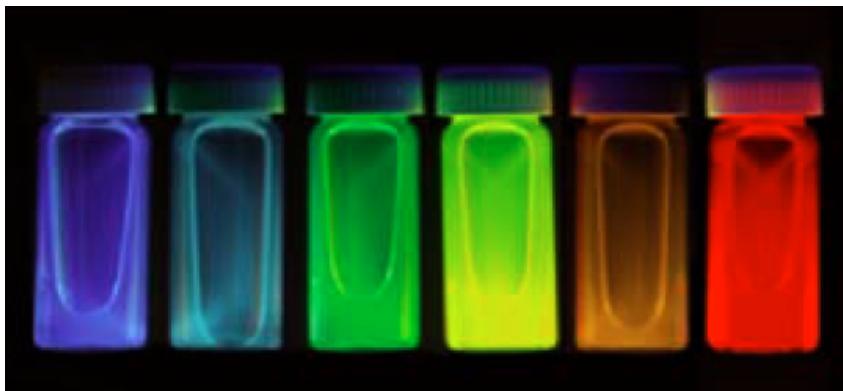
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Why major in physics?

- > Opens your mind
- > Door open toward many other scientific disciplines
- > It is cool...





2nd year

1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
Linear Algebra	mechanics and relativity 1	mechanics and relativity 2	Electricity and Magnetism 1
Laboratory 1 (Physics IC2I project)	thermodynamics	Structure of Matter 1	Laboratory 2 (Physics IC2I Project)
Numerical methods and programming	Free UCG Electives	Calculus 2	Calculus 3



3rd year

1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
Electricity and magnetism 2	Statistical physics	Solid State Physics	Quantum Physics 2
Quantum Physics 1	Waves and Optics	Research Project (7.5EC)	Research Project (7.5EC)
Free UCG Electives	Free UCG Electives	Free UCG Electives	Free UCG Electives

Want to know more about the courses? www.rug.nl/ocasys



The added value of physics in LAS

- › Multidisciplinary education (ability to speak “different languages”) --→ Modern sciences are **MULTIDISCIPLINARY**
- › Better writing and speaking skills
- › More support (tutor system)
- › Tailorable program with a strong core



Astronomy? 2nd year

1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
Linear Algebra	mechanics and relativity 1	mechanics and relativity 2	Electricity and Magnetism 1
Laboratory 1(integrated in IC2I project)	thermodynamics	Complex Analysis	Physics of stars
Numerical methods and programming	Free UCG Electives	Calculus 2	Calculus 3



Astronomy? 3rd year

1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
Electricity and magnetism 2	Statistical physics	Astrohydrodynamics	Quantum Physics 2
Quantum Physics 1	Waves and optics	Free UCG Electives	Physics of galaxies
Cosmology	Free UCG Electives	Research Project (7.5EC)	Research Project (7.5EC)

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After UCG: Master programmes

- > 1 year courses + 1 year research
- > Applied Physics
- > Physics
 - Quantum Universe
 - Advanced Materials



Special Master programmes

- > Top Master in Nanoscience (Msc, 2 years)
- > Selected entrance with scholarship





Physics is all around us...

