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Flexible Energy Technology

Hanze University of Applied Sciences, Groningen

Certificate / Diploma Short course Groningen

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Course description

Qualification	Certificate
Field of study	Engineering
Course summary	During this programme you study the operational flexibility of advanced combined cycle power plants and new energy network technologies that will allow us to balance the energy network in the future.
Course description	The programme consists of two terms: Flexible Power Generation and Energy Transition. In the first term, you will follow either an electrical or a mechanical engineering programme. In each programme you will perform a project concerning Flexible Power Generation that is relevant for the power plant industry. The necessary knowledge will be given during courses that support the project, such as Power plant operation, Power plant design, Power grids and power electronics. These courses are mainly given by experts from the power plant industry (Electrabel, Nuon). In the second term you follow a joined electrical and mechanical engineering programme during which you perform a project concerning the Energy Transition. For this project, you participate in applied research projects of the Centre for Applied Research and Innovation in Energy (CARI-E). This centre performs research in order to study the balancing of the energy network. Relevant courses for the projects, such as renewable energy, energy network and network control, are given by researchers from CARI-E.
Study subjects	Project; Plant thermodynamics; Grid principles; Grids and Electronics; Plant operation; Plant Design; Academic Counseling; Renewable Energy; Energy Network; Network Control
Course	

objectives	-
ECTS credits	30.00
Duration	5 month(s) full-time
Language of instruction	English
Instruction modes	case study, oral presentation, lecture, group assignment, individual assignment, self study, project
Accreditation	-

About the institution

Department	School of Engineering
Information about the institution	The Hanze University of Applied Sciences (UAS) is located in the vibrant student city Groningen.

Admission

Admission requirements	1. Students need to have obtained 120 to 180 ECTS credits at undergraduate level in electrical engineering or mechanical engineering (with the subjects mathematics, physics, thermodynamics, electrical circuits and chemistry). The FET programme is offered in the last year of a bachelor programme.

Language requirements	
IELTS listening	5.5
IELTS overall band	6
IELTS reading	5.5
IELTS speaking	5.5
IELTS writing	5.5
TOEFL computer based	213
TOEFL internet based	80
TOEFL paper based	550

Professional experience required	-
Duration	5 month(s) full-time

Application deadlines

Start date	EU/EEA Students	Non-EU/EEA students
1 Sep 2019	1 Jul 2019	1 Jun 2019
1 Sep 2020	1 Jul 2020	1 Jun 2020

Year	EU/EEA	Non-EU/EEA	Institutional
2019 (FT)	n.a.	€ 7700	€ 3150

Tuition fees	In short, the following rules apply: • The "EU/EEA rate" is the regular fee for students from within the EU/EEA. • The "non-EU/EEA rate" is the rate for students from outside the EU/EEA. • The "institutional rate" is for all students who have already obtained a bachelor's or master's degree and who want to start a second programme leading to a degree at the same level or at a lower level. • Note that FT, PT and D stand for "full-time", "part-time" and "dual", respectively. Make sure you contact your institution to find out what rate applies to you. The rates listed here are estimates.
Scholarships	- For more scholarships, visit: www.grantfinder.nl
Course website	More information about the course

Contact

Contact information for the study programme	**Hanze Studiekeuze Advies** studiekeuzeadvies@org.hanze.nl
Contact information for the institution	**Hanze Studiekeuze Advies** study info studiekeuzeadvies@org.hanze.nl
Telephone number	+31 (0) 50 595 7890
Course website	More information about the course
Institution website	More information about the institution

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