

## Programme

### Qualification awarded

Bachelor of Science

### Length of the programme

48 months

### ECTS credits

240

### Level of qualification

Bachelor

### Mode

Full-time

### Language

Dutch, with parts in English

### School

Institute of Engineering

### Locations

Groningen

## Industrial Product Design

### Profile of the programme

The innovative people-oriented design of meaningful products is central to the Industrial Design Engineering programme (IDE). The form, function and experience of current and new technologies are processed into innovative applications that people use in their daily work, learning, care, play and entertainment. The graduate of the Bachelor of IDE can demonstrate that he/she has achieved the following three learning outcomes at programme level:

\* Product can be a broad definition that also includes a machine, service, system, environment, experience, interaction, or business.

### Learning outcomes

The graduate of the Bachelor of IDE can demonstrate that he/she has achieved the following three learning outcomes at programme level:

1. The IDE engineer researches and identifies the characteristics, desires, wishes and requirements of present and future users while designing, taking into account the physical, social and societal environment, and the state of the art. He/she translates the outcomes into a vision on product use. This forms the basis for a product\* idea.
2. The IDE engineer translates the idea for a product\* into visualized and materialized concepts. He/she specifies features and requirements in an iterative fashion with the aid of creative and other methods, techniques and instruments.
3. The IDE engineer translates visual concepts into functioning prototypes that can be produced, have a substantiated business case and connect to the experience of different users. He/she designs and improves user-product interaction in an iterative fashion by investigating the developed prototypes with the aid of user research and/or creative and other methods, techniques and instruments.

## Programme

Industrial Product Design	credits
Jaar 1	60
□ Semester 1	30
▫ POVP22PRO1 - Project Industrial Design Engineering I	10
▫ POVP22KNS1 - Product Awareness	5
▫ POVP22KNS2 - Basic skills - CAD & Sketching	5
▫ POVP22KNS3 - Form Follows Function	5
▫ POVP22DPI1 - Designers Professional Identity I	5
□ Semester 2	30
▫ POVP22PRO2 - Project Industrial Design Engineering II	10
▫ POVP22KNS4 - Meaningful Products & Visual Communication	5
▫ POVP22KNS5 - Metal Construction & Production based on Human Factors	5
▫ POVP22KNS6 - Mechanical Design & Mechanisms	5
▫ POVP22DPI2 - Designers Professional Identity II	5
Year 2	60
□ Product Development 1	13
▫ POVB18051 - From Idea to Concept	4
▫ POVB16052 - Production	3
▫ POVB17053 - User Research	3
▫ POVB16054 - Marketing & Strategy	3
□ Product Development 2	14
▫ POVB18061 - From Concept to Realisation	5
▫ POVB16062 - Materials	3
▫ POVB16063 - Design Skills	3
▫ POVB16064 - Design Engineering	3
□ Smart Innovation 1	18
▫ POVB18071 - From Briefing to Concept	5
▫ POVB16072 - Sustainability	3
▫ POVB16073 - Human Factors & Ergonomics	3
▫ POVB16074 - English	3

▫ POVB18075 - Entrepreneurial Skills	4
▫ Smart Innovation 2	15
▫ POVB17081 - From Concept to Realisation	6
▫ POVB16082 - Electrical Engineering & Modelling	3
▫ POVB16083 - Design Skills	3
▫ POVB16084 - Interaction Design	3
Pre-graduation Practice	30
<i>selection of following courses</i>	
▫ POVB17111 - Pre-graduation Practice	30
▫ POVB17111BU - Pre-graduation Practice (abroad)	30
Minor / Elective Programme	30
<i>electives</i>	
Pre-graduation Programme	30
▫ POVB21131 - Pre-graduation Project	30
Graduation Programme	30
<i>selection of following courses</i>	
▫ POVB21141 - Graduation Project	30
▫ POVB21141BU - Graduation Project (abroad)	30

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