



UNIVERSITY  
OF SKÖVDE

# YOU CREATE REALITY





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# SWEDEN – A SMALL COUNTRY THAT MAKES A DIFFERENCE



# SWEDEN, AN INNOVATIVE COUNTRY



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SKANSKA

Nordea



ERICSSON



metro®

SANDVIK

SSAB

SKF

IKEA®

ASSA ABLOY

Autoliv

*Thinking of you*  
Electrolux

Husqvarna

SECURITAS

Haldex

# SKÖVDE – A SMALL TOWN THAT MAKES A DIFFERENCE



Bild 5



# UNIVERSITY OF SKÖVDE

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Established in 1977

# UNIVERSITY OF SKÖVDE



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# MODERN UNIVERSITY WITH AN OPEN AND WELCOMING APPROACH



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# The Campus





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# CAMPUS



● Skövde Student Housing Accommodation

● ATM (cash withdrawal machine)

○ P – Public Parking Lot

○ S – Student Parking Lot  
*Parking permits can be picked up at the Student Union Office and at the reception desk in the G-building*

○ PG – Staff and Guest parking  
*(Permits for guests may be picked at the reception desk in the G-building)*

*Parking permits can be picked up at the reception desk in the G-building and at the Student Union Office*

For detailed information, see  
[www.his.se/campuskarta](http://www.his.se/campuskarta)

- 1 Library
- 2 The Chancellery Administration
- 3 Götasalen Restaurant
- 4 Boulanger Student Union Building
- 5 Gothia Science Park
- 6 Travel Centre 300 m
- 7 Town Centre approx. 500 m
- 8 PORTALEN

**A Högskolehopen**  
Technical Administrative Services  
- University Shop (Print and Office Supplies)  
- Access Card Distribution  
**The Student Union Office**  
Examination Halls  
Computer /Lecture Rooms  
**D HR and Finance Office**  
Lecture Halls  
Computer /Lecture Rooms

**E Academic Affairs and Student Support**  
- Student Support, Student Counselling and Student Health Services  
- Returns of Marked Exams  
- Student Affairs Office and Reception  
**IT Services Office**  
- Head of Department  
- System Development  
- IT Services  
- IT Helpdesk  
**The School of Business**  
Computer /Lecture Rooms  
Lecture Halls

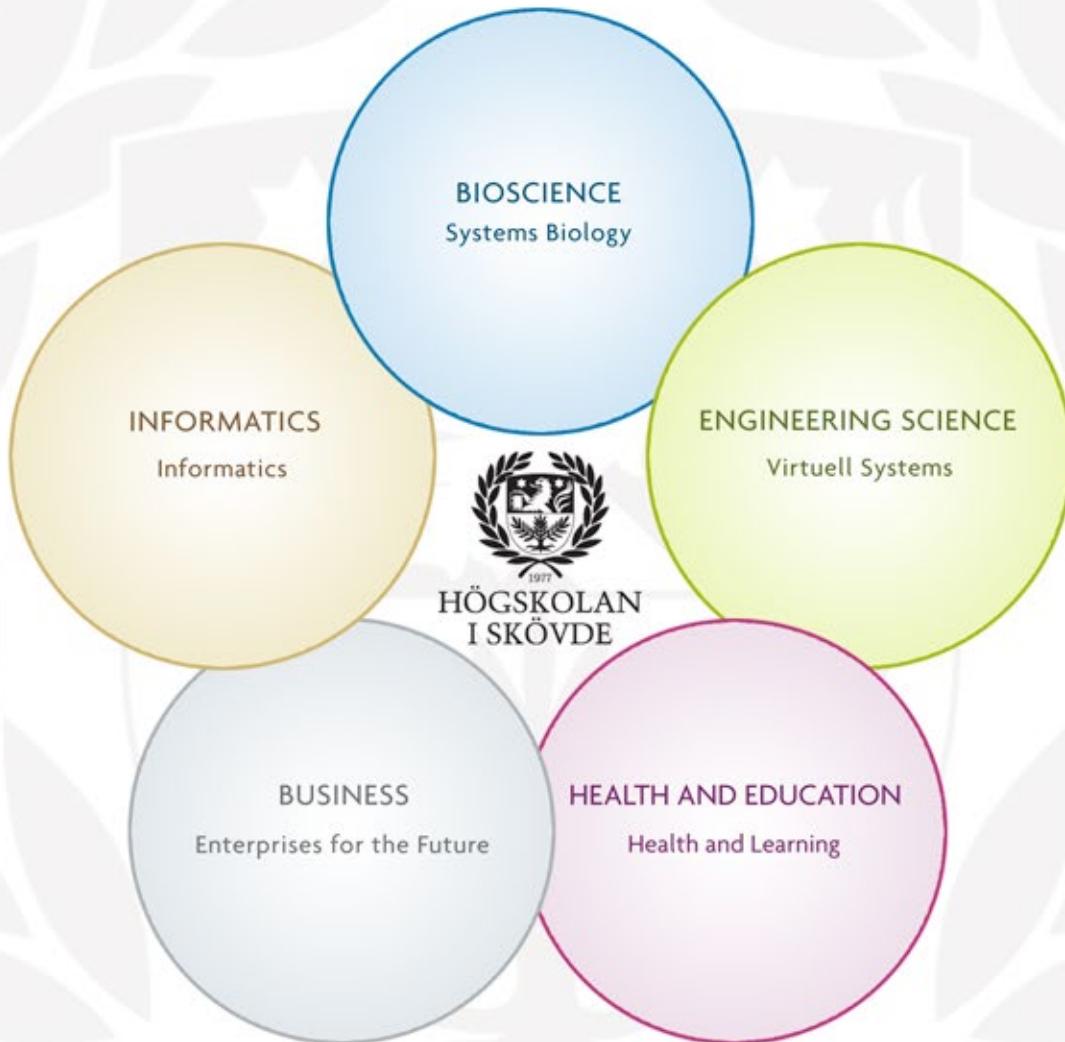
**G Main Entrance/Reception/ Switchboard**  
The School of Bioscience  
The School of Health and Education  
Computer /Lecture Rooms  
Lecture Halls  
**H Collaboration and Communications Office**  
Computer /Lecture Rooms  
Lecture Hall  
**2 The Vice-Chancellor's Office**  
**8 The School of Engineering Science**  
The School of Informatics

# FACTS

- Students: around 7 400 (3 350 ft equivalents)
- Staff: around 540
- 60 study programmes –
  - Bachelor, Master, PhD
  - Innovative and cross disciplinary!
- 200 single subject courses
- About 100 courses given in English
- 120 exchange agreements with more than 40 countries
- 200 incoming international students
- 50 outgoing exchange students



Lars Niklasson  
Vice-Chancellor



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# School of Informatics

## Degree subjects:

- Informatics
- Media Arts, Aesthetics and Narration

**Other subjects:** Cognitive Science, Music



Our Game Incubator at Gothia Science Park is the world leading talent factory in the field of computer game development

# School of Informatics



- Distributed Real-time Systems
- Information Systems
- Interaction Lab
- Skövde Artificial Intelligence Lab
- Media, Technology and Culture
- Software Systems Research Group



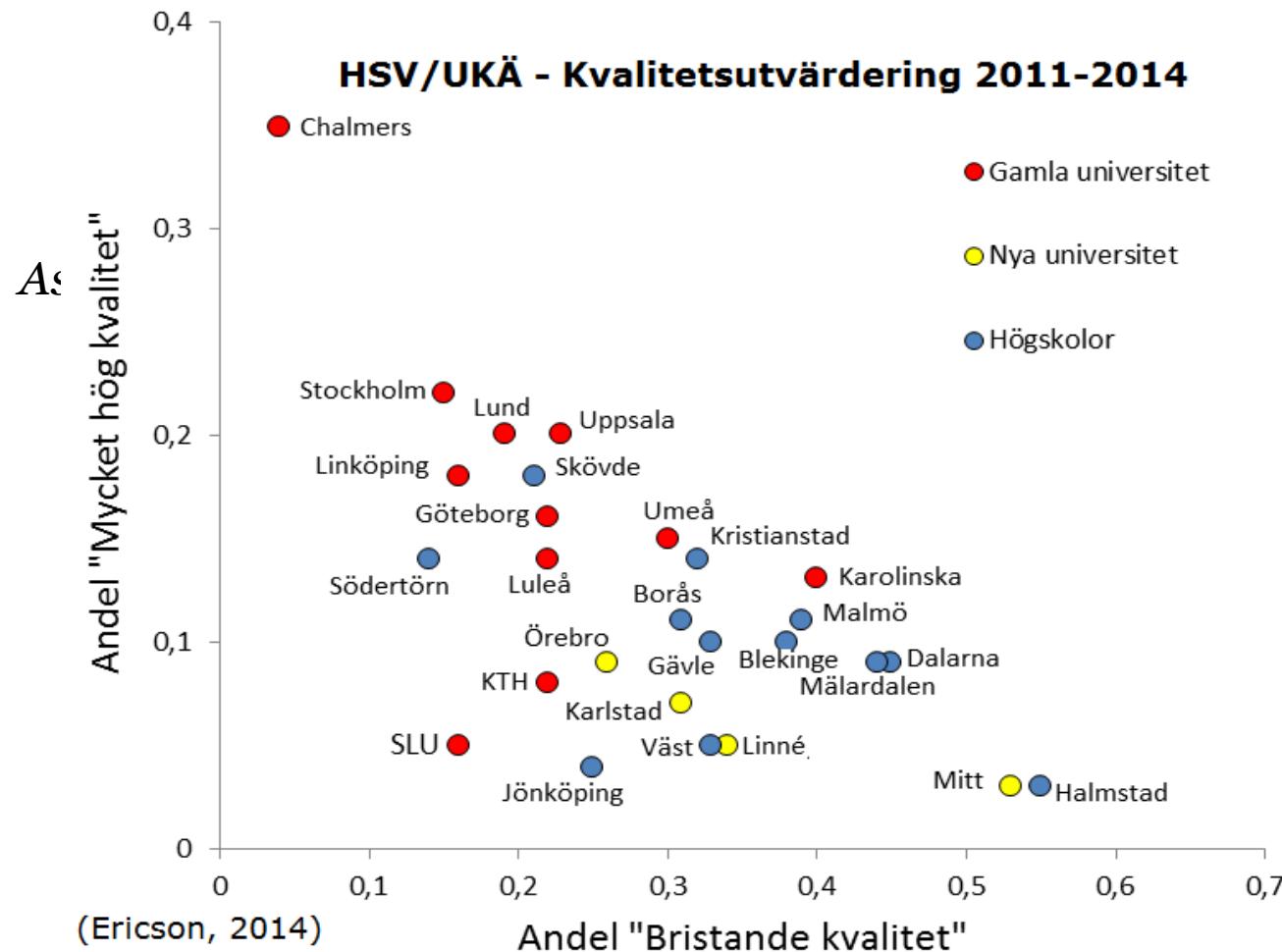
# PhD in Information Technology

The PhD programme in Informatics covers a broad spectrum of information technology-related disciplines ranging from the study of media and organizational computing to the technical disciplines

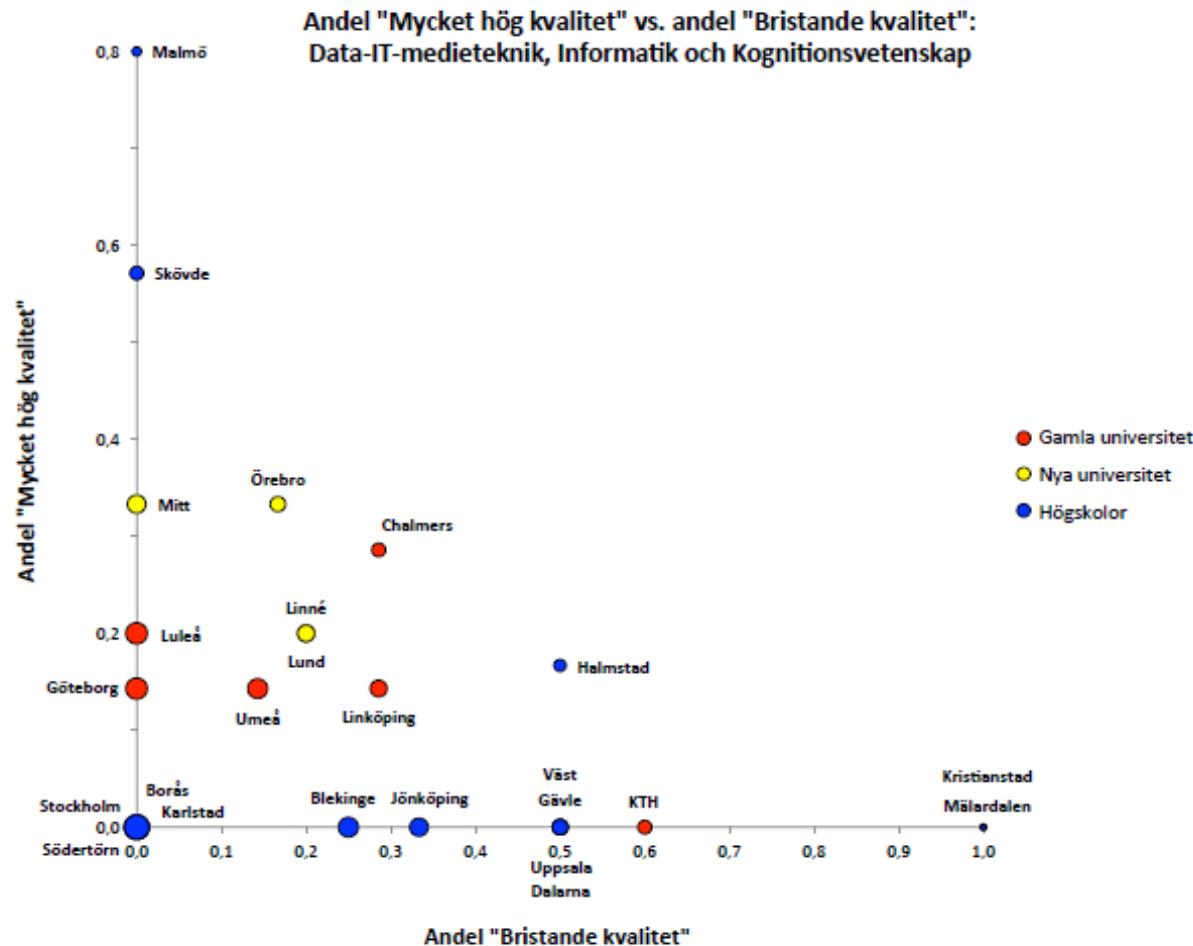
## **IPSI** - Industrial PhD School Informatics

The vision is to be able to award PhD degrees in all of the five research specialisations.

# Top 7 in Sweden - Quality of education



# Top 2 in Sweden – Computer Science



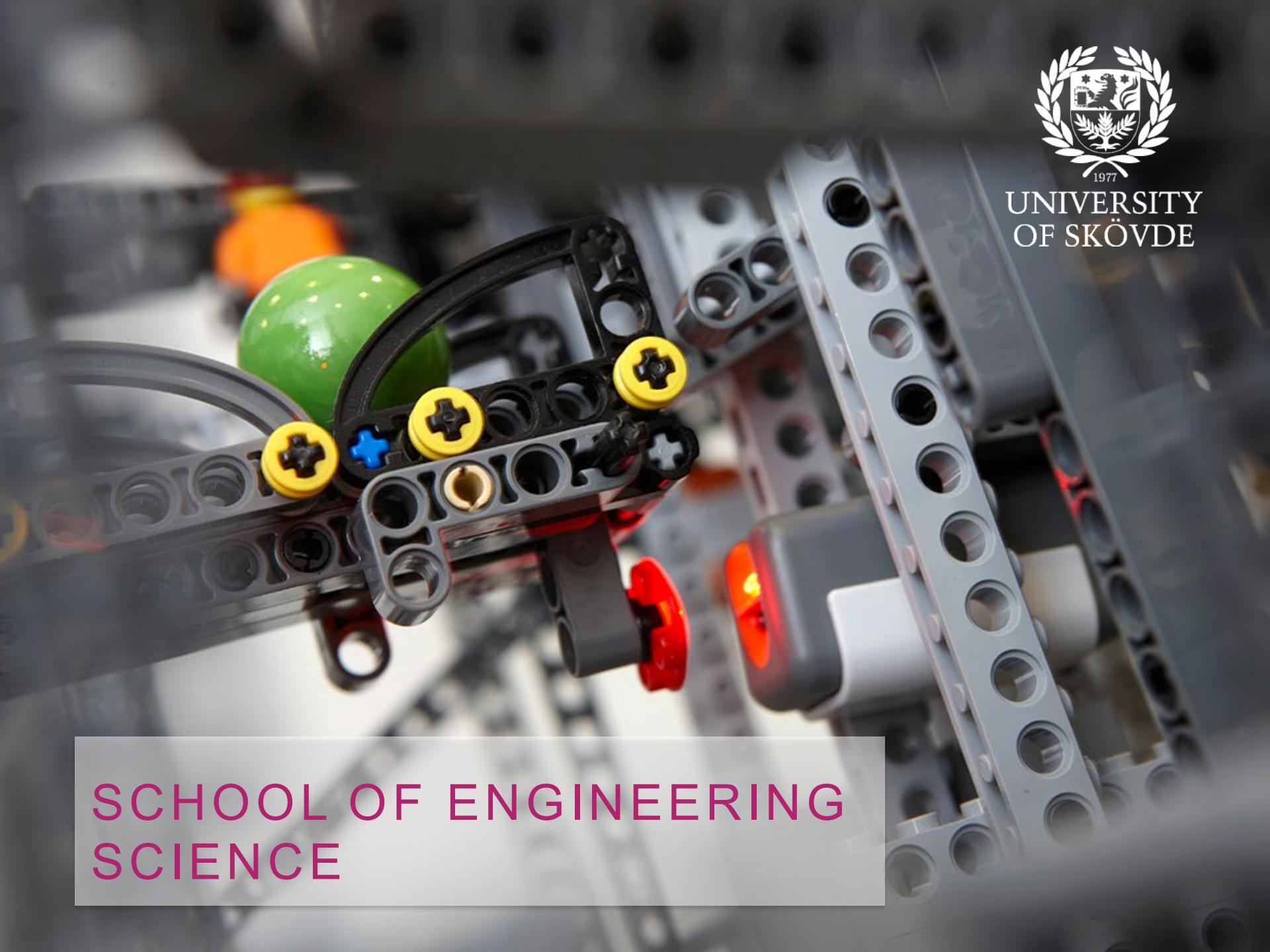


- About 100 partner universities in 35 countries
- Scholarship programmes such as Erasmus+, Linnaeus-Palme, Erasmus-Mundus, MFS and Science without Borders





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A close-up photograph of a complex LEGO Technic model. The model features various grey Technic beams with circular holes, black axles, and yellow and red plastic connectors. A green spherical piece is attached to one of the black beams. The background is dark and out of focus.

SCHOOL OF ENGINEERING  
SCIENCE

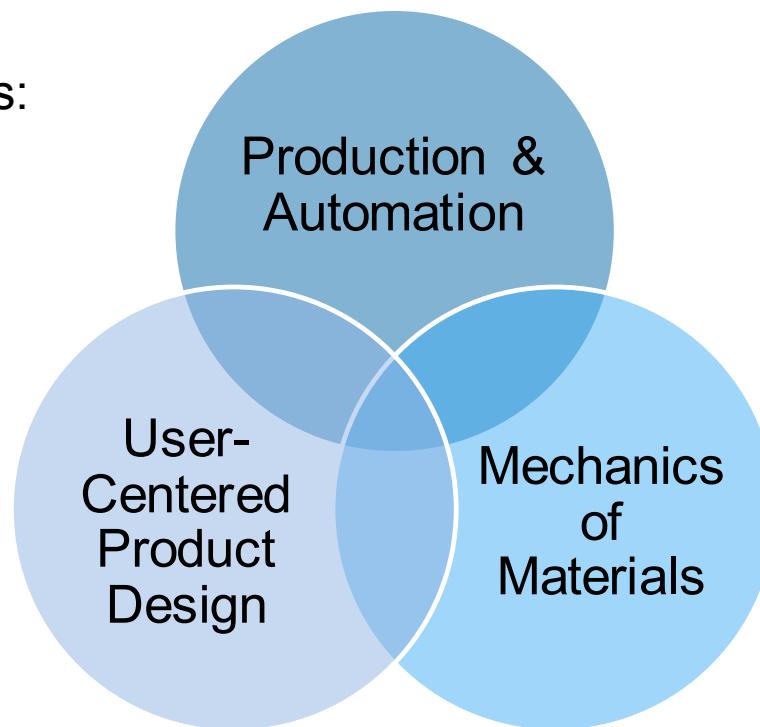


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# FOCUS

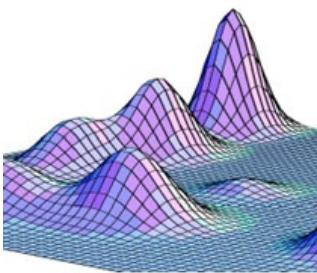
**Virtual Engineering** – industrial problem solving based on the usage and development of virtual solutions.

Three research groups:



# PRODUCTION & AUTOMATION

## Simulation-based optimization



## IT-tools for the operators of the future



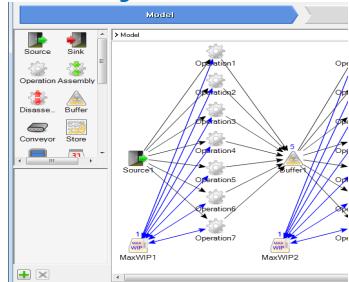
## Maintenance optimization



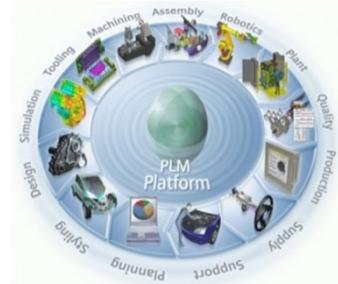
## Human-robot collaboration



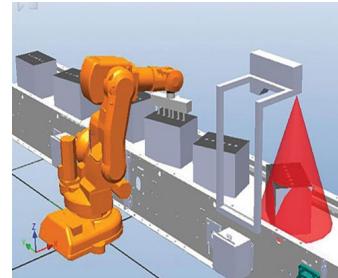
## Decision-support system



## Product life-cycle management



## Virtual commissioning



## Continuous improvements



# USER-CENTERED PRODUCT DESIGN



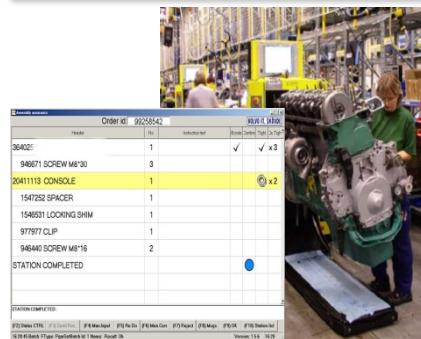
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## VIRTUAL ERGONOMICS DESIGN



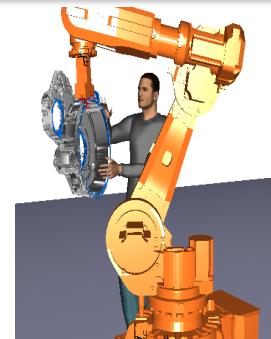
Research about methods and tools for simulation of human-product interaction, to evaluate ergonomics and design ergonomic products and workplaces.

## INDUSTRIAL INFORMATION DESIGN



Research about work related information and development of methods for design of successful information system solutions in industry.

## HUMAN-ROBOT COLLABORATION



Research about human-robot collaboration, to create human friendly and productive workplaces.

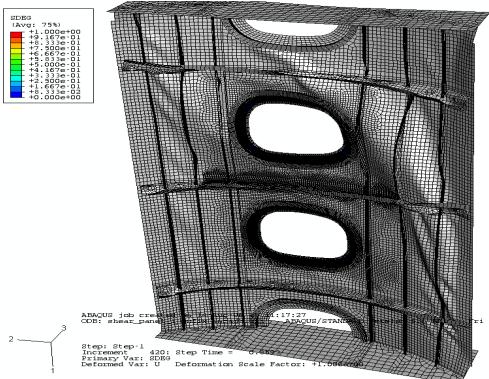
## SMART TEXTILES – INDUSTRIAL APPLICATIONS



Research about how smart textiles can be applied in industry to improve health, quality and productivity.

# MECHANICS OF MATERIALS

## Adhesive joints



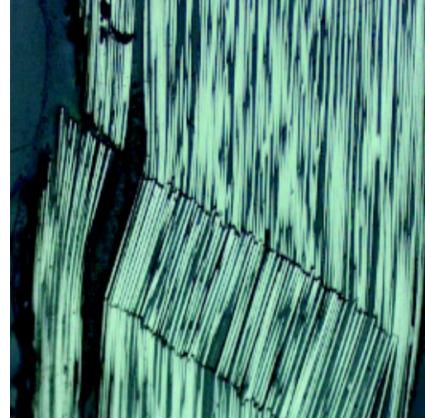
Fracture of adhesive joints of strengthening components in airplane fuselage.

## Composite material



Delamination of carbon fiber composite material.

## Kink-band



Kink-band formation during compressive loading of carbon fiber reinforced epoxy.

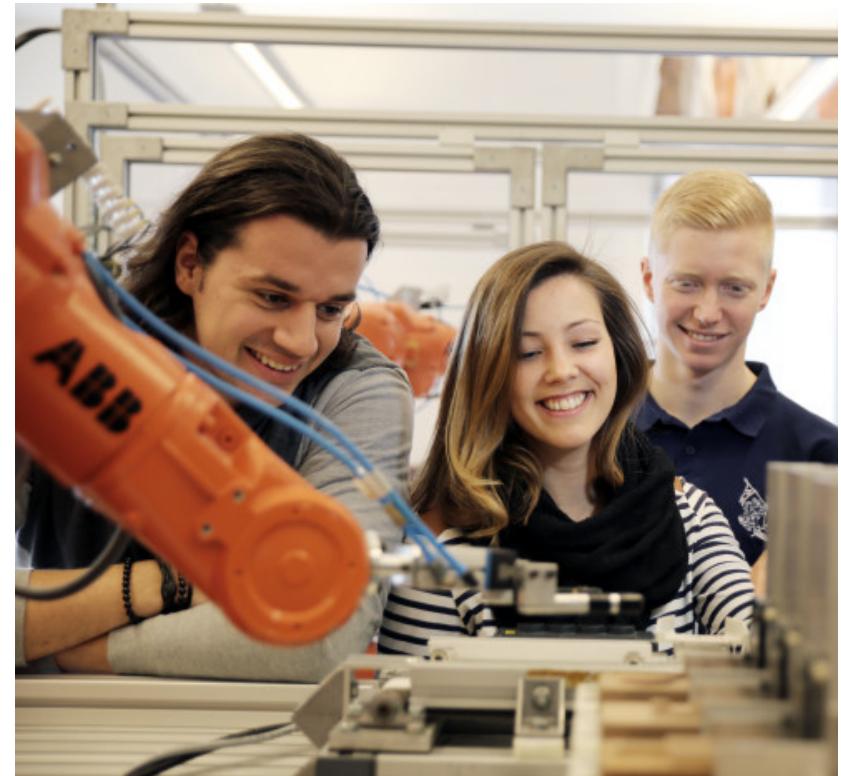
# ENGINEERING PROGRAMS

## Undergraduate Engineering Programs

- Automation Engineering
- Production Engineering
- Mechanical Engineering
- Design Engineering
- Building Engineering
- General Engineering
- Production Technician
- Automation Technician

## Graduate Engineering Programs

- Intelligent Automation 60 ECTS
- Intelligent Automation 120 ECTS
- Virtual Ergonomics and Design 60 ECTS
- Virtual Ergonomics and Design 120 ECTS





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- Interaction between business and research
- Business incubator





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## INDUSTRIAL INNOVATION ARENA





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The Volvo AB Preferred Research Partner  
within Virtual Manufacturing

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# Mechanical Engineers 2019 International students



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Autumn semester	Vecka	2nd year - AS20/SS21		3rd year - AS21/SS22	
	1	Fluid Dynamics	Statistics for Engineers II	Swedish for Foreign Students / English/Preparatory Course/Engineering Introduction for Exchange Students	British flag
	2				
	3				
	4				
	5				
	6	Mechanics II	Linear Algebra: Vector Algebra		British flag
	7				
	8				
	9				
	10	Strength of Materials I: Introduction	Linear Algebra: Matrices and Eigenvector Problems	Machine Design Component	British flag
	11				
	12			Mechanics IV	British flag
	13				
	14				
	15				
	16	Manufacturing Technology and Science of Materials	Mechanics III	Applied FEM II	British flag
	17				
	18			Material Processing Technology	British flag
	19				
Spring Semester	1				
	2				
	3	Strength of Materials II	Swedish for Foreign Students / English/Preparatory Course		British flag
	4				
	5				
	6				
	7	Applied FEM I			British flag
	8				
	9		Strength of Materials III		
	10				
	11				
	12				
	13				
	14	Engineering Project II: Machine			British flag
	15				
	16				
	17				
	18				
	19				
	20		Sustainable Development for Engineers II	Final project in Mechanical Engineering	British flag
Varje cell motsvarar en vecka					
<span style="background-color: #90EE90; color: black; padding: 2px;">IP</span> <span style="background-color: #ADD8E6; color: black; padding: 2px;">Auto</span> <span style="background-color: #F0A0A0; color: black; padding: 2px;">Maskin</span> <span style="background-color: #D2B48C; color: black; padding: 2px;">Matte</span> <span style="background-color: #D2B48C; color: black; padding: 2px;">Fysik</span> <span style="background-color: #D2B48C; color: black; padding: 2px;">Andra inst.</span>					



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1977

# Product Design Engineers 2019 International students

Vecka	2nd year - AS20/SS21		3th year - AS21/SS22	
1	Product Development and Design II		Swedish for Foreign Students / English/Preparatory Course/Product Development and Design II	
2	Mechanics II: Static	Linear Algebra: Vector Algebra		
3	Strength of Materials I: Introduction	Linear Algebra: Matrices and Eigenvector Problems	Design Methodology II:	Ergonomics II: Digital Human Modeling and Evaluation
4	Manufacturing Technology and Science of Materials	Industrial Design I	CAD III	User Centered Design
5	Swedish for Foreign Students / English/Preparatory Course	Digital Visualization		
6	Ergonomics I: Introduction	Design Methodology I		
7		Industrial Design II		
8	Engineering Project II: Design			
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20		Sustainable Development for Engineers II		
Varje cell motsvarar en vecka				
	IP	Auto	Maskin	Matte
	Fysik			Andra inst.

# Production Engineer 2019 International students



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**Autumn Semester**

Vecka	2nd year - AS20/SS21		3th year - AS21/SS22	
1	Linear Algebra -geometric transformation	Statistics for Engineers II	Swedish for Foreign Students / English/Preparatory Course/Engineering Introduction for Exchange Students	
2		Production and Logistics Simulation I	Production System Design	Efficient workplaces
3	Industrial robotics and och offline programming			
4		Manufacturing Technology and Science of Materials	Applied Operations Research	Production and Logistics Simulation II
5		Industrial Control		
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**Spring semester**

1	Efficient workflows	Swedish for Foreign Students / English/Preparatory Course	
2		Maintenance and realitability engineering	
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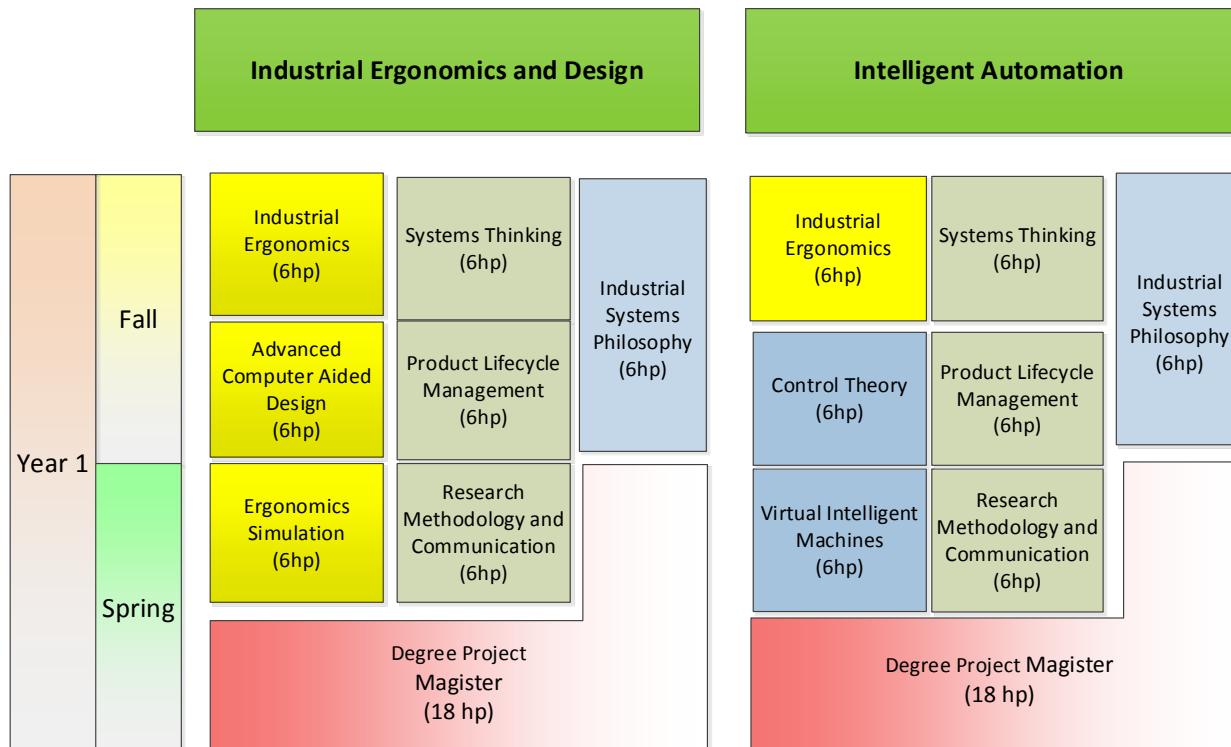
Varje cell motsvarar en vecka

IP Auto Maskin Matte Fysik Andra inst.



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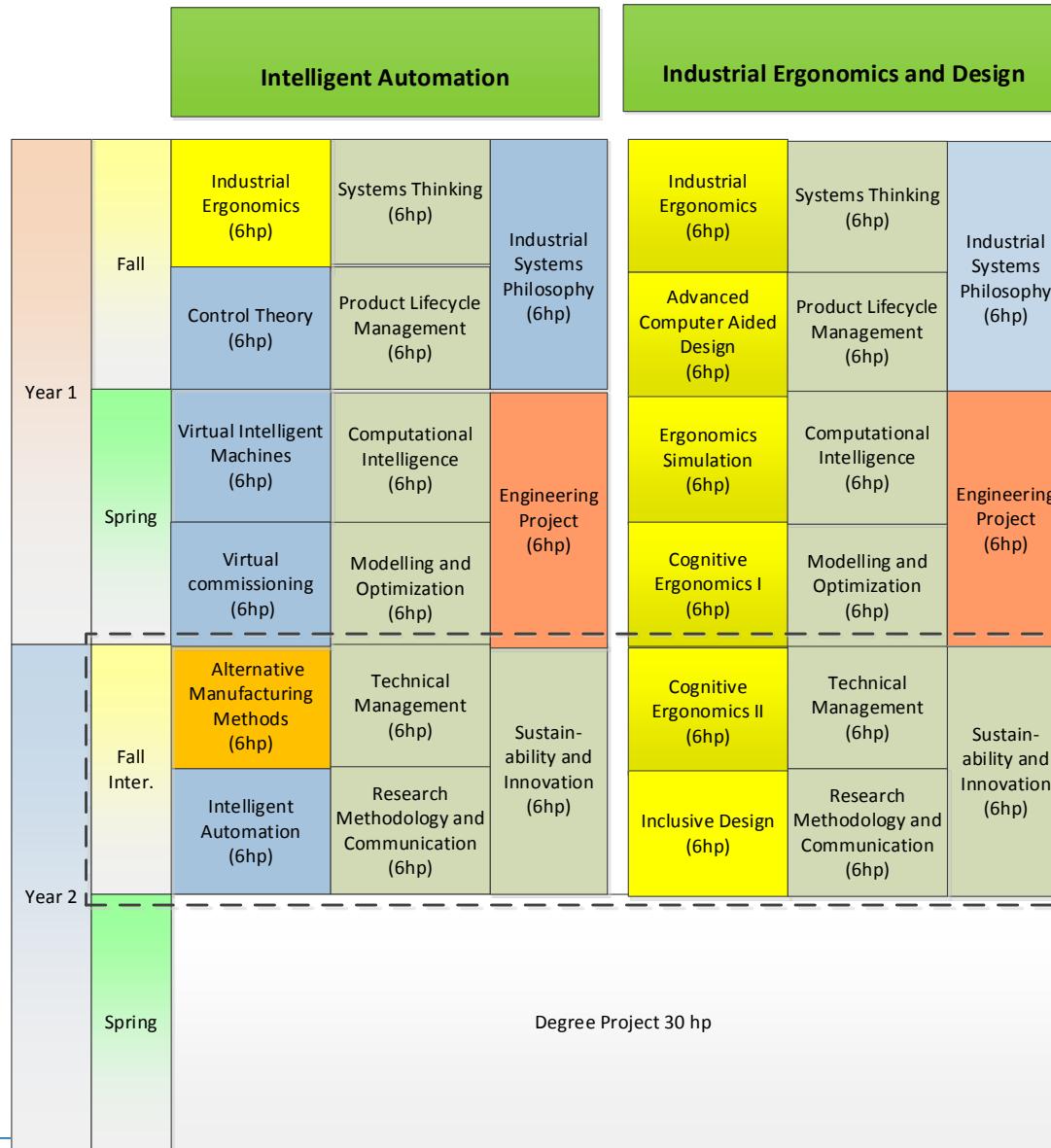
# NEW 1-YEAR MASTER'S PROGRAMS



# NEW 2-YEAR MASTER'S PROGRAM



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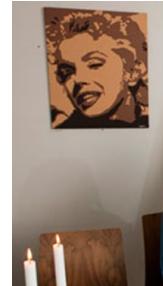




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# Student Support

- Student Accommodation Service
- Pick-up service
- Introduction programme
- Student Union
- International Committee
- A buddy system





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# Student Support

- Student Affairs Office
- Student and Career Counselling
- Student Health (Social counselling)
- Support for students with disabilities
- IT-Helpdesk
- Library
- Study Support Centre





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# CONTACT

- International Office:  
[international@his.se](mailto:international@his.se)
- Student counsellors:  
[studycounselling@his.se](mailto:studycounselling@his.se)
- Admission:  
[admission@his.se](mailto:admission@his.se)
- Accommodation:  
[bostadsformedling@his.se](mailto:bostadsformedling@his.se)





# BENEFITS OF THE ERASMUS PROGRAM

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Professional and personal enrichment  
Meet people and learn new cultures  
Improve languages



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# AN OPORTUNITY

Possibility of enriching your engineering studies and even more:

- Possibility of getting a double engineering title if the requisites are accomplished.
- Possibility of studying a 1 year master degree after getting the bachelor degree.
- Personalized attention to the student.
- Direct relation with industry.
- Meet one of the most innovative countries in the world.
- Improve languages.

*Take your chance!*





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# TACK SÅ MYCKET

[www.his.se](http://www.his.se)

[www.studyinsweden.se](http://www.studyinsweden.se)

[www.facebook.com/hogskolaniskovde](https://www.facebook.com/hogskolaniskovde)

Enrique Ruiz Zúñiga – School of Engineering Science - Responsible for internationalization

University of Malaga – 18th November 2019