



University of Southern Denmark

Faculty of Engineering

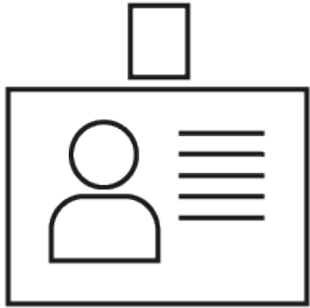




University of
Southern Denmark



Key figures



3,983 employees
(full-time equivalents)



20,396
full-time students



DKK 3.4
billion in revenue



6
cities

International Key figures

1,243

international
employees

50

English-taught
programmes

17%

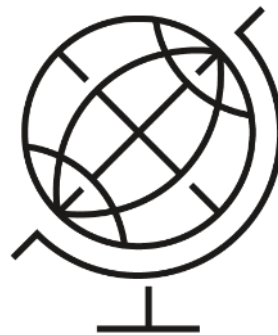
international
full-time students

60.1%

International
publications

192

different
countries



407

exchange
students (outgoing)

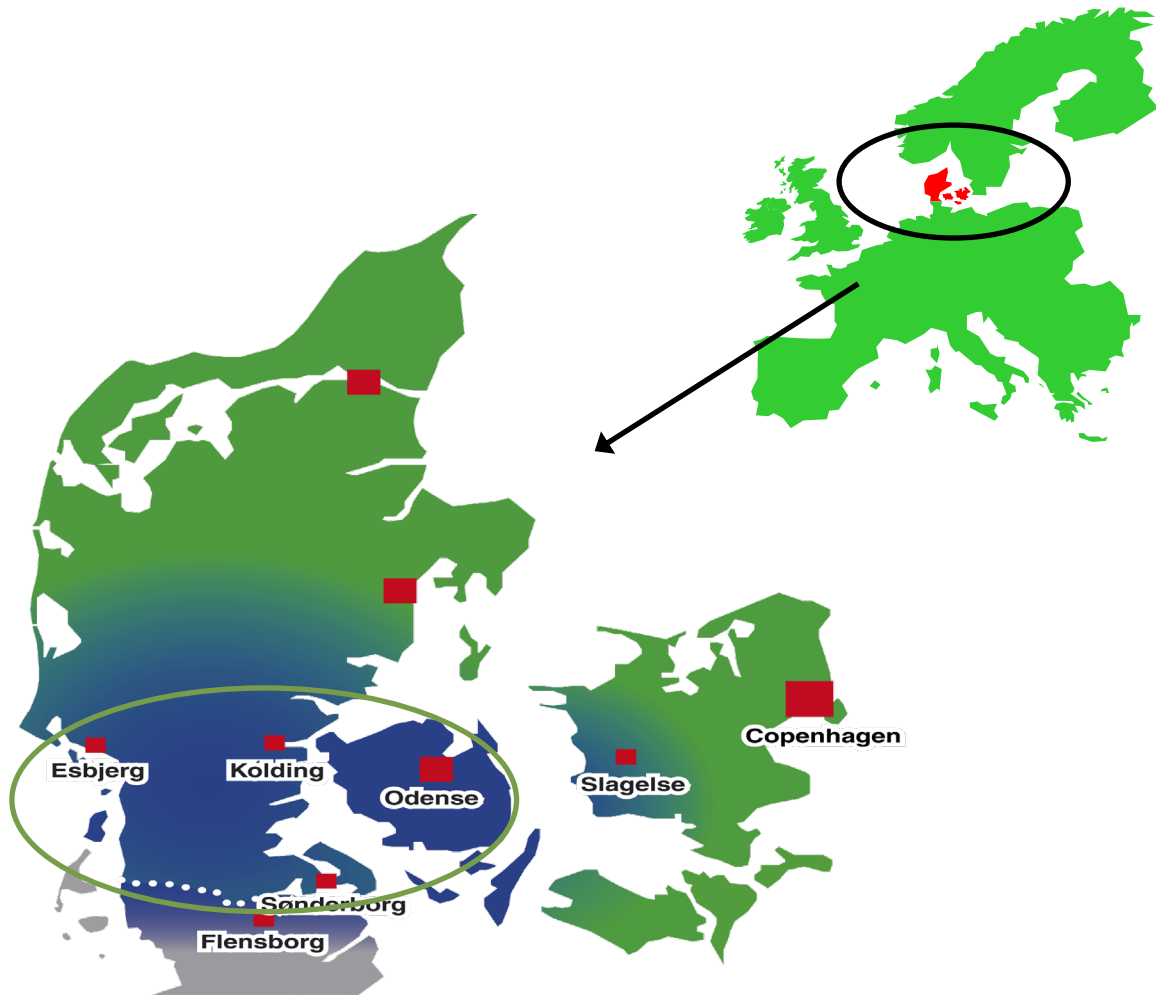
941

exchange
students (incoming)

484

partner
universities

SDU in Denmark



Campuses and faculties

Faculty of	Odense	Kolding	Esbjerg	Sønderborg	Copenhagen
Health Sciences	✓		✓		✓
Science	✓				
Engineering	✓			✓	
Business and Social Sciences	✓	✓	✓	✓	
Humanities	✓	✓	✓	✓	



Dean
Henrik Bindslev

Director of studies:
Henning Andersen

**Department of
Technology
and Innovation**
Jeroen Bergmann

**Department of
Green Technology**
Jens Ejbye Schmidt

**The Maersk Mc-
Kinney Moller
Institute**
Kasper Hallenborg

**The Mads Clausen
Institute**
Horst-Günter Rubahn

**Department of
Mechanics and
Electronics**
Christian T. Veje

Faculty units

Centres

- [Centre for Industrial Electronics \(CIE\)](#)
- [Centre for Industrial Mechanics \(CIM\)](#)
- [Centre for Industrial Software \(CIS\)](#)
- [C:MAC - Centre for Materials Analysis and Characterization](#)
- [POLIMA - Centre for Polariton-driven Light-Matter Interactions](#)
- [SDU CAPE- Centre for Advanced Photovoltaics and Thin-film Energy Devices](#)
- [SDU Center for Energy Informatics](#)
- [SDU Centre for Photonics Engineering](#)
- [SDU Centre for Sustainable Chain Engineering](#)
- [SDU Health Informatics and Technology](#)
- [SDU Nano Optics](#)
- [SDU NanoSYD](#)
- [SDU UAS Center](#)



Faculty units

Sections

- [SDU Applied AI and Data Science](#)
- [SDU Biorobotics](#)
- [SDU Biotechnology](#)
- [SDU Chemical Engineering](#)
- [SDU Civil and Architectural Engineering](#)
- [SDU Electrical Engineering](#)
- [SDU Engineering Operations Management](#)
- [SDU Metaverse Lab](#)



Faculty units

- [SDU Global Sustainable Production](#)
- [SDU Health Informatics and Technology](#)
- [SDU Industri 4.0 Lab](#)
- [SDU Innovation and Design Engineering](#)
- [SDU Life Cycle Engineering](#)
- [SDU Mechatronics](#)
- [SDU Mechanical Engineering](#)
- [SDU Robotics](#)
- [SDU Software Engineering](#)
- [SDU Technology Entrepreneurship and Innovation \(TEI\)](#)
- [TEK Innovation](#)

TEK (ENGR)



SDU i4.0 Lab

Robotic components and systems in context

Digital Twins

AI, AR & VR

Autonomy and agents

Realistic cases

Industry cooperation

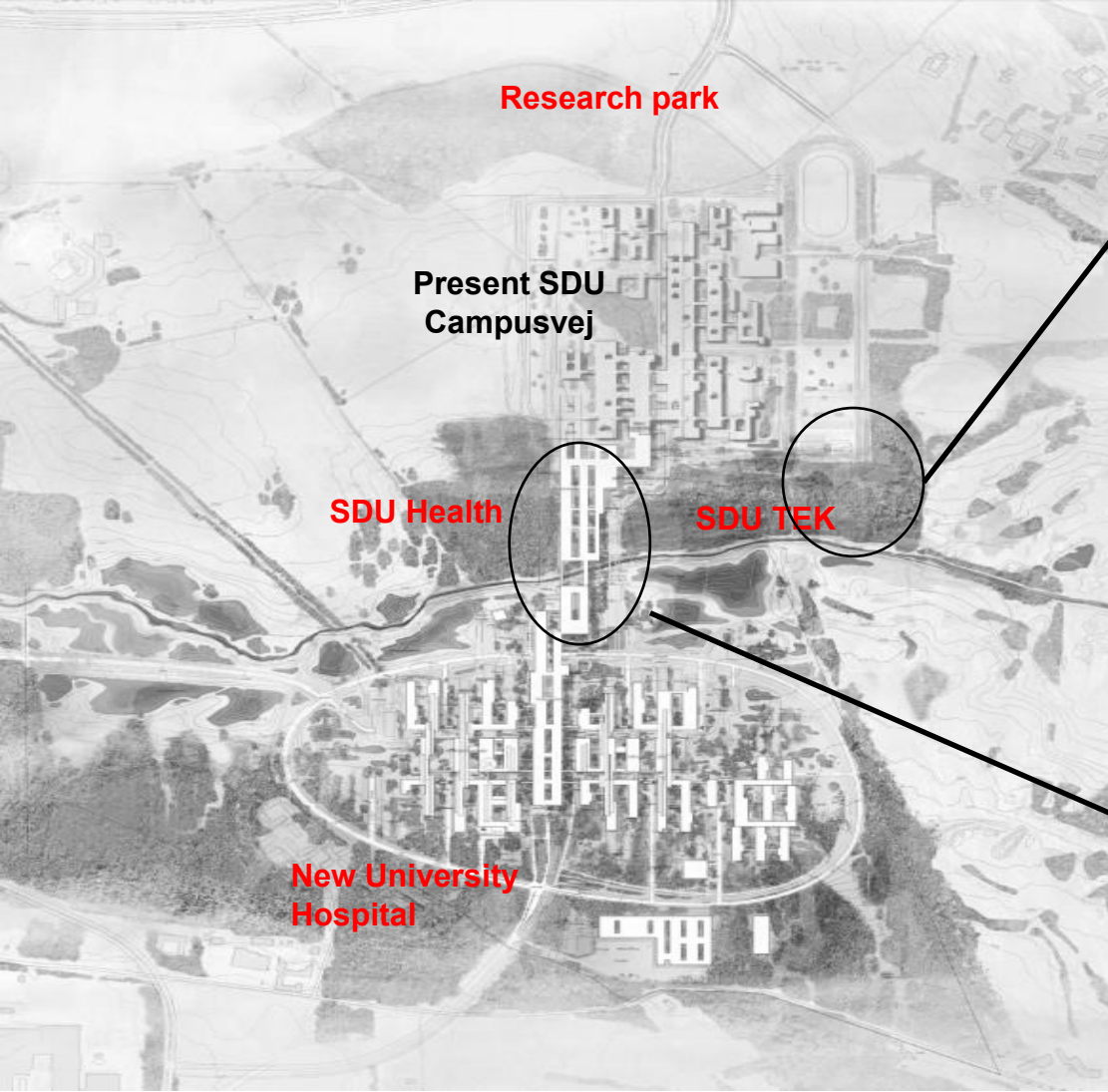
Interdisciplinary cooperation

SDU i4.0 lab

TEK (ENGR)



An evolving campus Odense



New Faculty of Engineering



New Faculty of Health



**FACULTY OF
ENGINEERING**

3630

Students

885

Graduates

27

Programs

579

Employees

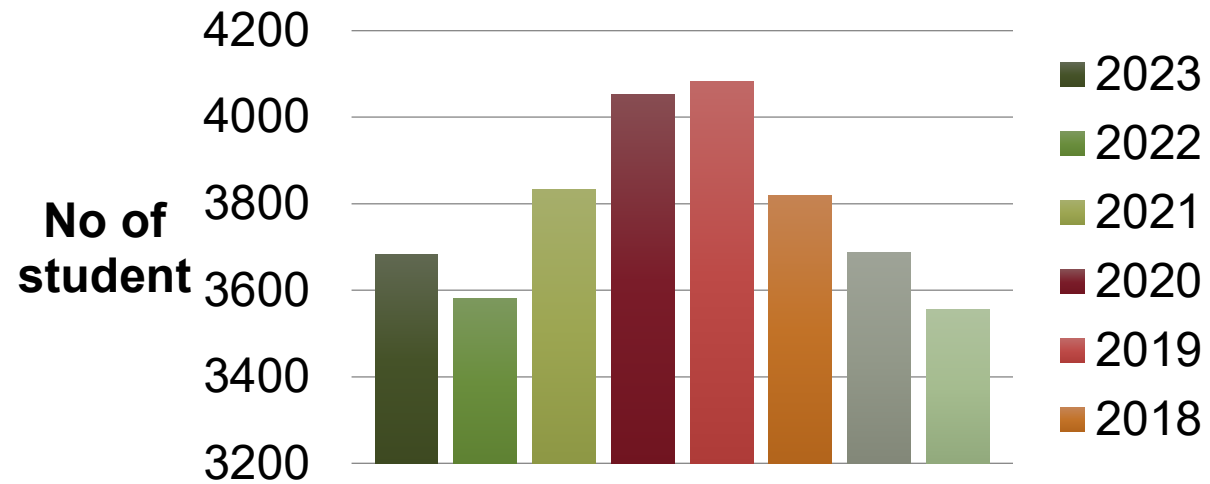
5

Institutes

26

Centers and Sections

Faculty of Engineering Students



Campus	Pct. int. full degree students
Odense	28
Sønderborg	82



SDU – One of top 1,5% universities in the World

University of Southern Denmark's received rank on academic university rankings:

	CWTS Leiden (MNCS)	ARWU Shanghai	QS WUR	THE WUR	NTU
2016	328	301	361	310	267
2017	317	401	390	272	273
2018	308	302	384	277	261
2019	324	306	376	294	272
2020	364	307	372	282	258
2021	415	331	353	286	235
2022	534	287	309	295	210
2023	555		347		
2024			326		

University of Southern Denmark's received rank on purposeful university rankings:

	UI Green Metric	THE Impact Ranking	QS Sustainability
2019	39	101-200	
2020	12	201-300	
2021	11	23	
2022	13	92	
2023		101-200	142



Education programmes

Bachelor of Engineering

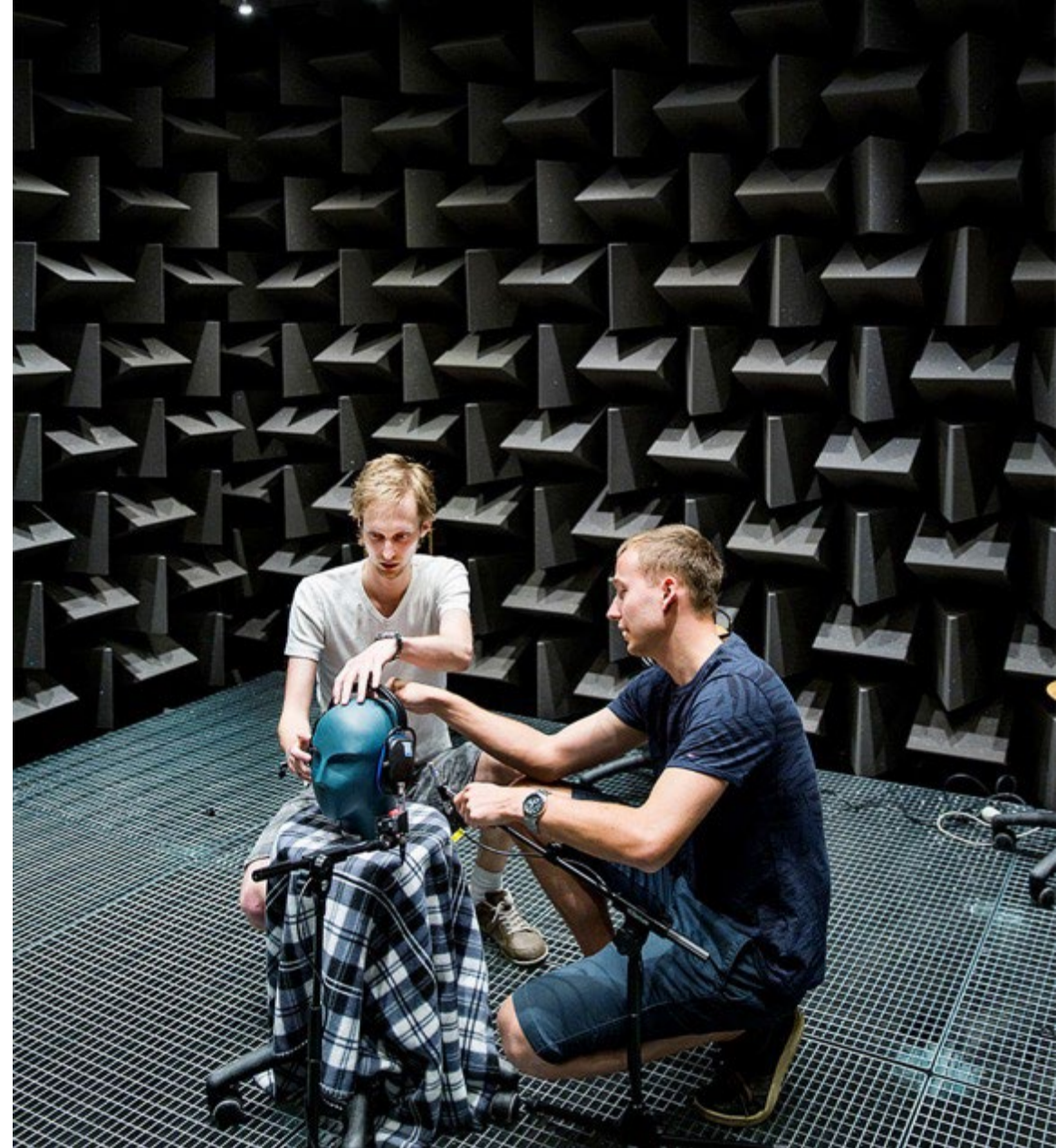
- Civil Engineering
- Electronics
- Electrical Energy Technology
- Electronics (Elektronik)
- Global Management and Manufacturing
- Integrated Design
- Chemical Engineering and Biotechnology
- Mechanical Engineering (Odense)
- Mechanical Engineering (Sønderborg)
- Mechatronics
- Manufacturing Engineering and Management
- Robot Systems
- Software Technology



Education programmes

BSc in Engineering

- Civil Engineering
- Electronics Engineering (Sønderborg)
- Electronics (Elektronik)
- Energy Systems Engineering
- Physics and Technology Engineering
- Engineering, Innovation and Business
- Chemical Engineering and Biotechnology
- Game Development and Learning Technology Engineering
- Mechatronics Engineering
- Mechanical Engineering (Odense)
- Mechanical / Maskinteknik (Sønderborg)
- Product Development and Innovation Engineering
- Robot Systems
- Software Engineering (Odense)
- Software Engineering (Sønderborg)
- Health Informatics and Technology Engineering



Education programmes

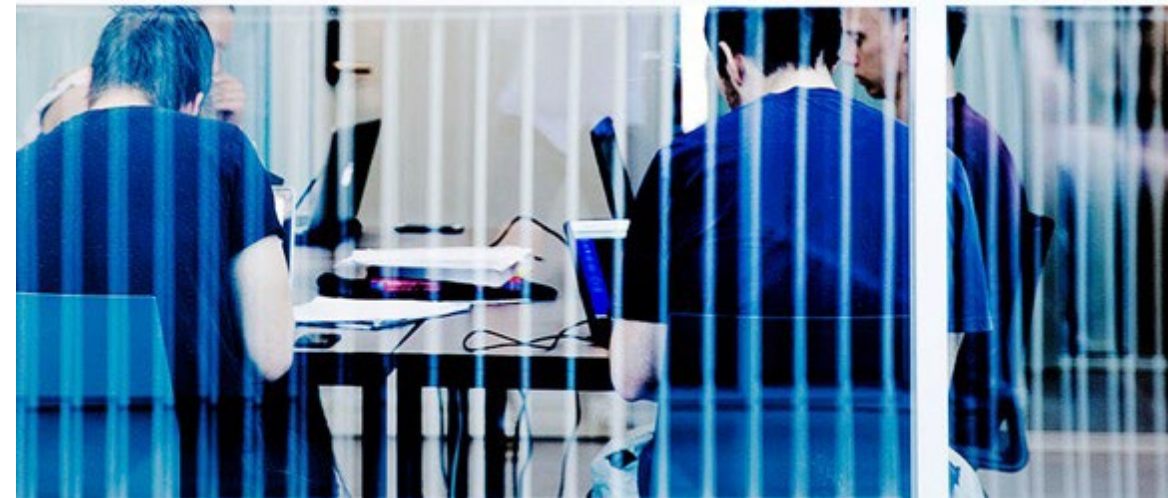
MSc in Engineering

- Civil Engineering
- Chemical Engineering and Biotechnology
- Electronics Engineering (Sønderborg)
- Energy Systems Engineering
- Engineering, Innovation and Business
- Environmental Engineering
- Game Development and Learning Technology Engineering
- Health Informatics and Technology Engineering
- Mechatronics Engineering
- Operations Management Engineering

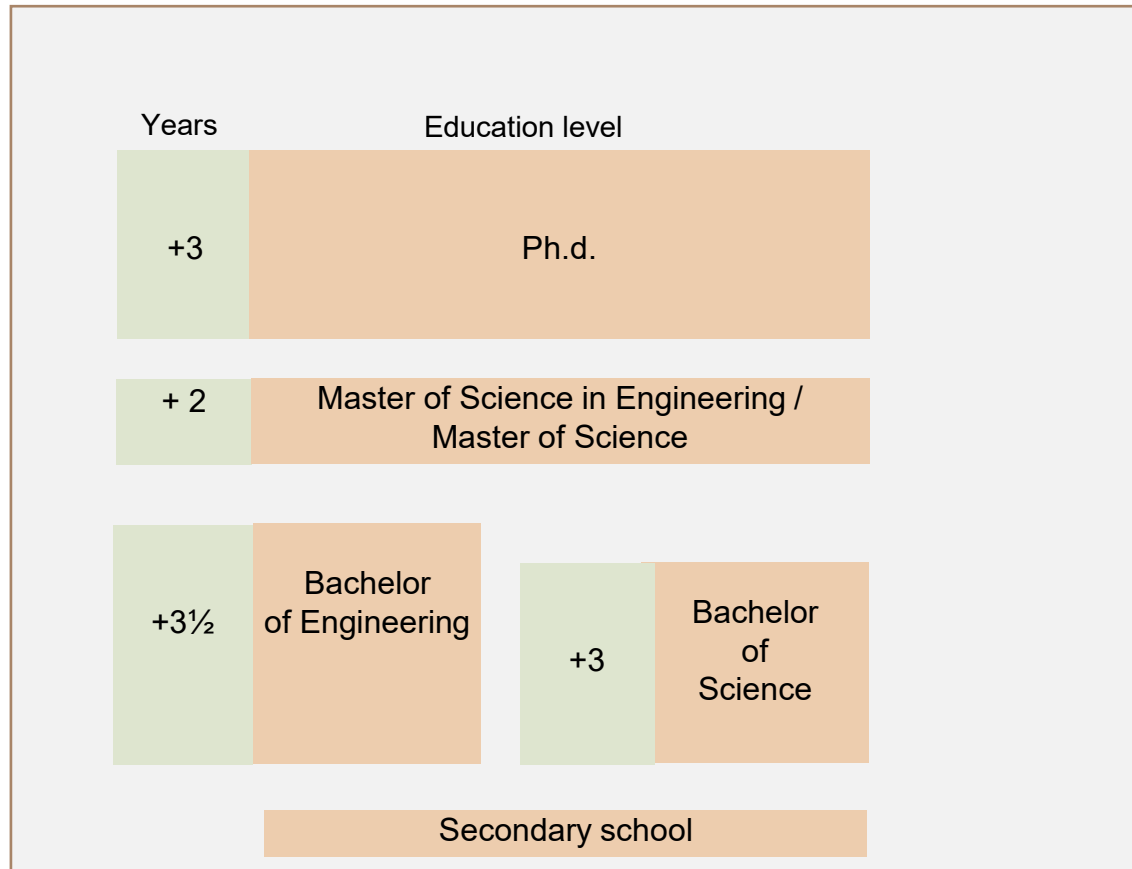
- Physics and Technology Engineering (Odense)
- Product Development and Innovation Engineering
- Robot Systems
- Software Engineering (Odense)

Industrial MSc

- Operations Management
- Software Engineering



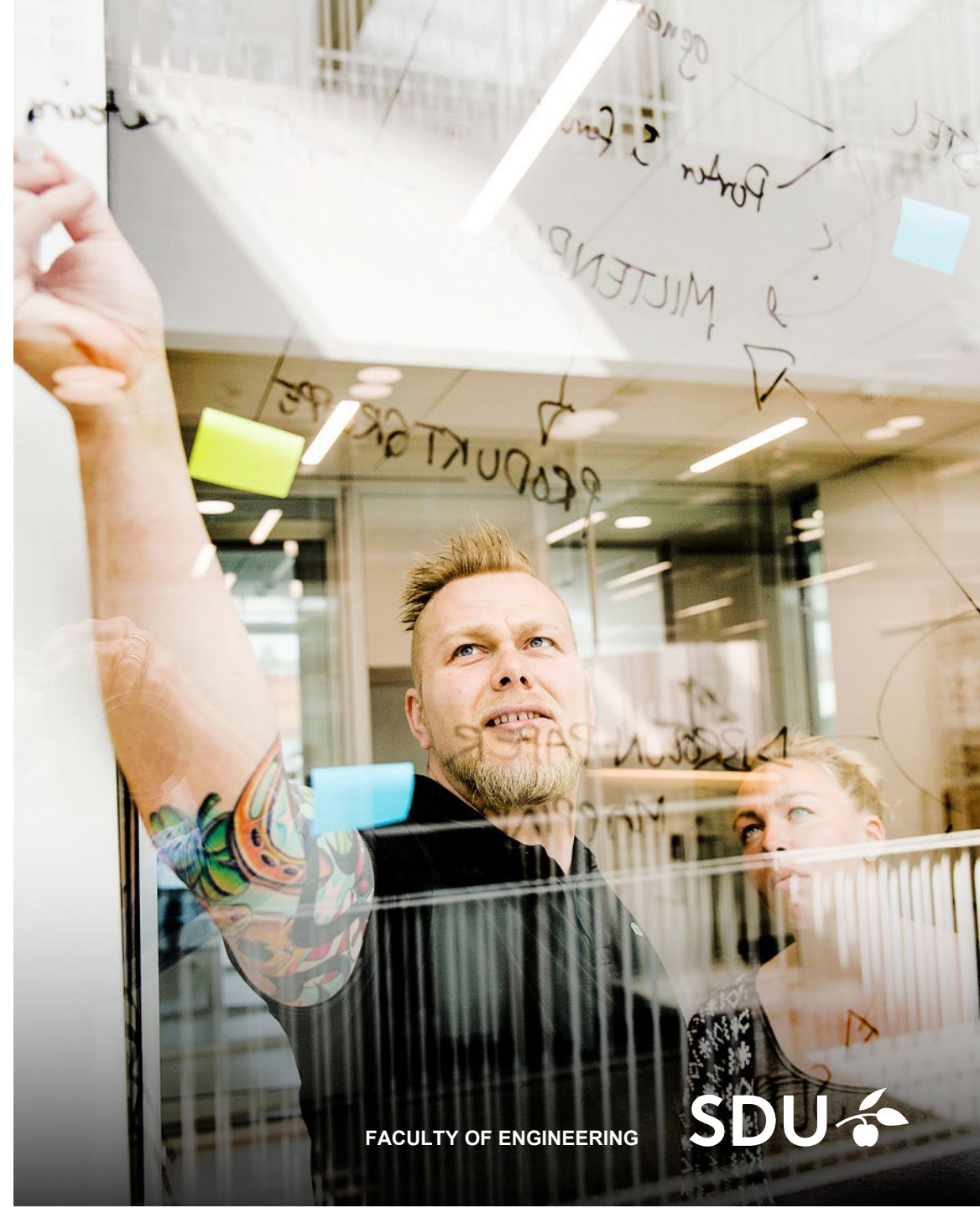
Education structure



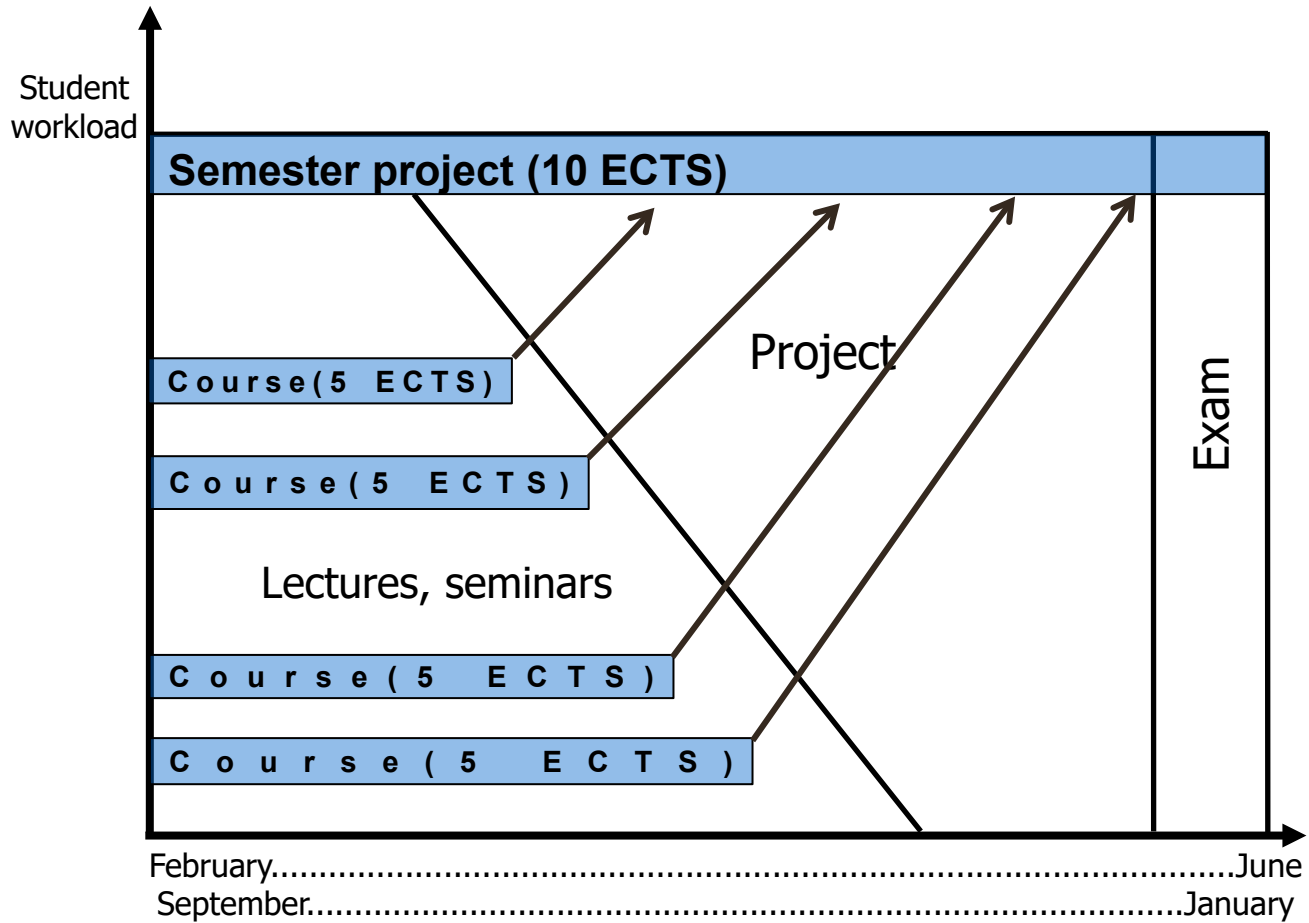
The Engineering Education Model of the University of Southern Denmark (DSMI)

DSMI applies to all engineering study programmes

- Through a project based and holistic approach, DSMI focuses on the development of the students' academic, personal and learning competences. Keywords are:
 - Problem based learning
 - Student involvement
 - Responsibility
 - Working in teams
 - Creativity
 - Integration of “real” industry problems

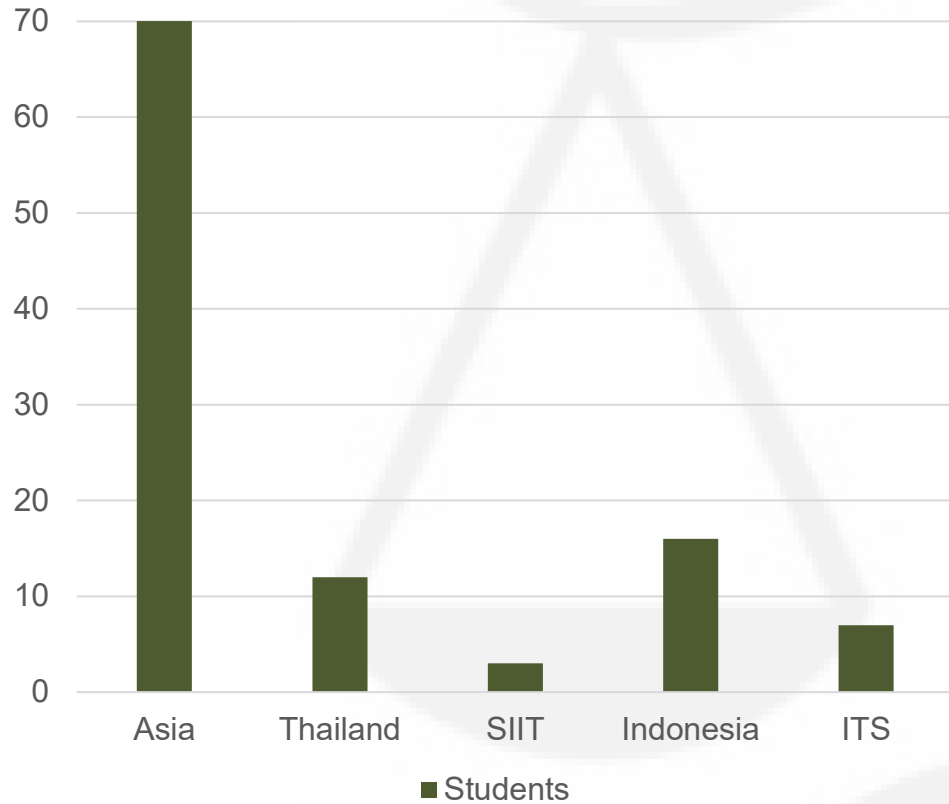


Learning approach

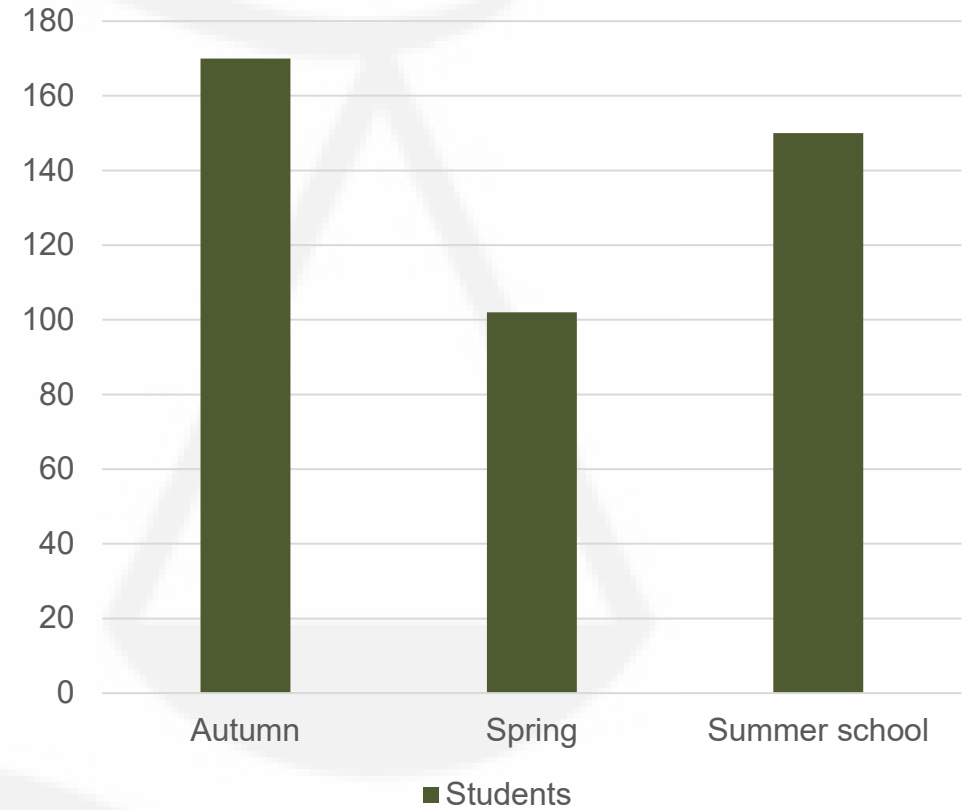


Semester-mobility 2023/24

Outbound Total: 212



Inbound Total: 297



Exchange at TEK

Exchange Semester

Courses, projects and thesis

Join a Research Group

Research for master students

Summer School

Short courses in August



Courses for exchange students

Bachelor/Master – one or two semester - Thesis

Subject areas

- Chemical Engineering
- Information and Communication Technology
- Innovation and Business
- Integrated Design
- Game Development and Learning Technology
- Manufacturing and Management
- Mechanical Engineering
- Mechatronics Engineering
- Product Development
- Robot Systems
- Software Engineering
- Structural Engineering
- Electronics
- Applied Physics
- Chemical Engineering
- Environmental Engineering
- Innovation and Business
- IT Product Design
- Operations Management

Free Summer school for partner students



Quick facts

Orientation and welcome:

3 August 2024

Course period:

5 August - 16 August 2024

Application start:

1 February, 2024

Application deadline:

1 May, 2024

No tuition fees for exchange students nominated through relevant exchange agreements

Course level

5 ECTS advanced bachelor level and graduate level

Summer school courses

→ Business, Economics, and Social Sciences

Decision, Persuasion and Negotiation | Geoeconomics, Statecraft, and International Security | Introduction to R | Systematic Review

→ Chemistry

Chemical Biology | Principles and Applications of PCR Technologies

→ Civil and Architectural Engineering

Experimental Architecture with Computational Design and Digital Fabrication | Cities and Climate Change

→ Engineering Physics

CubeSat 101 | Introduction to Nano-optics

→ Environmental Engineering

Engineering for Sustainability

→ Healthcare Engineering

Artificial Intelligence for Healthcare Data | Medical Devices and Imaging

→ Innovation and Design Engineering

Engineering Imagination

→ Manufacturing and Management Engineering

Project Management

→ Robotics and Drone Technology

Applied Composite Drone Manufacturing | Drones for Computer Vision Applications | Robotics: Fundamentals and Applications

→ Software Engineering and Computer Science

Continuous Delivery and DevOps | CyberSafe: Mastering the Art of Cybersecurity | Deep Learning | Next Generation Software Engineering

Research program for graduate students



Facts about research programs

Period

One semester or flexible start and length.
Minimum 3 months or 20 ECTS.

Credits

30 ECTS for one semester or 1.5 ECTS pr. week for flexible stays

Exam and grade

Evaluation with either a grade or approved/not approved

Prerequisites

Graduate students from SDU partner universities with qualifications as described in the actual research program.

Application

Please follow the links:

[Application deadlines](#)

[Online application](#)

More information

Contact SDU International

Research programs for graduate students

Research topics	Research topics
Nanophotonics, Nanofabrication and Advanced Imaging/Characterization	Organic and perovskite solar cells
3D/4D printing of metamaterials and adaptive structures	WaterLab - Lab-on-chip technologies for real-time aquatic quality evaluation
Drone for Infrastructure Inspection and Interaction	Façade Design and Engineering
Bio-Inspired Robotics and Embodied Neurorobotics	Urban Resilience
Health Sensing	Smart Materials for Advanced Technologies
Experimental Architecture	Imaging Mammalian cells with fluorescent microscopy
Control and Protection in smart grids	Multiphysics Simulation and Optimisation
Chemical Engineering	Fluid Mechanics and Heat Transfer
Bio- and food systems and instrumentation	Data-driven Agent-based Simulation
Simulating and optimizing metasurface structures	Industrial, welfare and medical robotics
Life Cycle Engineering and sustainable circular economy	Large Structure Production
Sustainable Bioprocesses	

Erasmus KA 171 / 131

Funding for mobility with Overseas partners

1. Incoming professors
2. Outgoing professors
3. Incoming Students



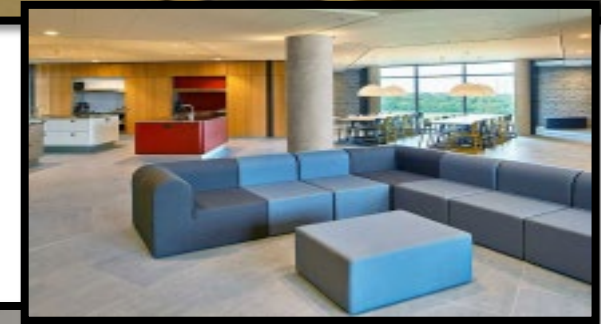
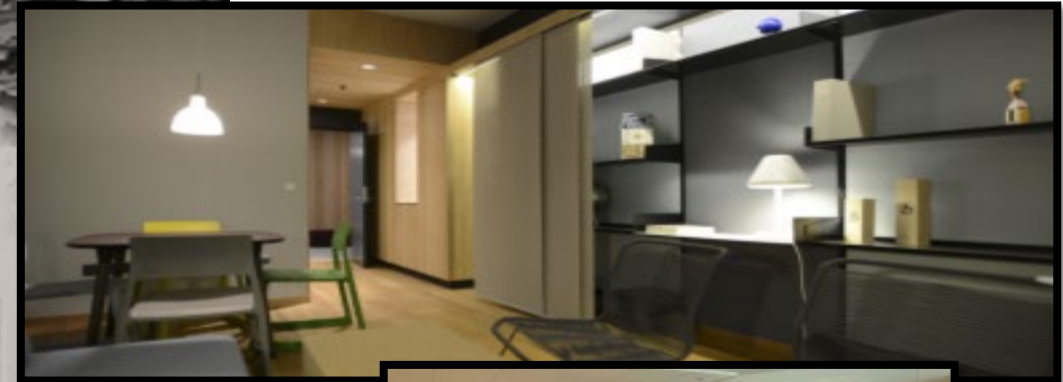
ERASMUS+

Admission and practical matter

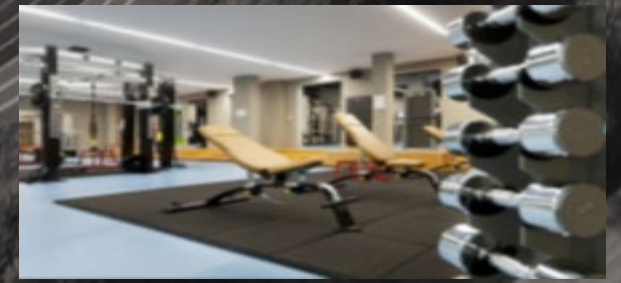
Application	Online
Semesters	Autumn semester 1 Sept - late January Spring semester 1 Feb – late June
Deadline	Autumn semester 1 April: Non-EU citizens Spring semester 1 October: Non-EU citizens
General Requirements	Bachelor: 2 years of Engineering Studies Master: 3 Years of Engineering Studies
Language Requirements	Partner and student sign requirement form of acceptable English level. NO IELTS or TOFL
Programme Requirements	Requirements to be evaluated and signed by partner and student
Accommodation	Guaranteed
Tuition Fee	None
Accommodation and Living Expenses	600-700 Euro / Month



Guaranteed housing for exchange students



Active Living at SDU



FACULTY OF ENGINEERING

Thank you for your attention

www.sdu.dk/engineering

Faculty of Engineering

