

# **ARCADA UNIVERSITY OF APPLIED SCIENCES**



# Info Session – Second Year Studies

MSE25 & MTH25

Sofie Sundström & Laurits Møller

6.5.2026

# Topics Today

- Tuition fee & Scholarship
- Academic Year 26-27
- The First- and Second-Year Studies
- Language Studies
- Development Studies
- Registration for the Academic Year & Course Enrollment
- Practical Training
- Exchange Studies
- Who to Contact?



## Scholarships

- Scholarships are administered by Student Affairs
- Granted based on academic success
- Granted as deductions from the tuition fee, no cash payouts
- Students starting in 2025 can get a 30 % scholarship starting from their second year of studies

# Scholarship requirements

- The student has completed an average of 55 ECTS per academic year with a grade point average of 4.5 or higher during their studies at Arcada.
- Please do not submit an application if you do not fulfill the criteria. If you are uncertain, you can ask Student Affairs.
- All info is available on [start.arcada.fi/en/](http://start.arcada.fi/en/)



## How to and when to apply for a scholarship

- Apply through the scholarship form online.
- Apply as soon as you have the 55 ECTS registered in Sisu (as long as you meet the grade average requirement of 4.5)
- **Deadline to apply is 15 June 2026.** Late applications will not be accepted except for in very exceptional cases such as exchange studies or transfer of credits from other universities. Please contact [studentaffairs@arcada.fi](mailto:studentaffairs@arcada.fi) early on and discuss these cases with us so we are aware.

# Paying the tuition fee

- Tuition fees are paid through Flywire.
- Apply for the scholarship first (if you are eligible)
  - Once you have received confirmation on a granted scholarship proceed to paying the tuition fee.
  - Tuition fee for those admitted in 2025 without a scholarship: 11 000 € or 5 500 €/semester
  - Tuition fee for those with a scholarship: 7700€ or 3850€/semester.
  - The deadline for the fall semester's tuition fee is **15 August**
  - If paid in 2 installments – deadline for spring semester's tuition fee is **15 December**
  - Once Arcada has received the tuition fee we will send you a confirmation of payment and scholarship (if applicable to you) and register you as attending for the academic year

## Questions?

**Student Affairs** are responsible for the processing of tuition fees and scholarships.

Any questions regarding this should be directed to them

[studentaffairs@arcada.fi](mailto:studentaffairs@arcada.fi)

029 4282 535 (Thursdays 1–2 pm)



# Helpful links regarding scholarships and tuition fees

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- Find step-by-step instructions for Flywire payments here: <https://start.arcada.fi/en/my-studies/tuition-fees/tuition-fee-payment/tuition-fee-payment-step-by-step-instructions>
- Scholarship criteria: <https://start.arcada.fi/en/my-studies/tuition-fees/scholarships/scholarship-criteria#scholarship-criteria-if-you-were-admitted-in-2025>
- How to apply for a scholarship: <https://start.arcada.fi/en/my-studies/tuition-fees/scholarships#scholarship-application>

# Academic Year 2026-2027

- **Periodization:**

Period 1: 1.8–25.10.2026

Period 2: 26.10–31.12.2026

Period 3: 1.1–21.3.2027

Period 4: 22.3–31.7.2027

- **Tuition starts:** 31 August 2026

- **No tuition (winter break):** 19  
December 2026 – 6 January 2027.

- **Course registration:**

Period 1: 10.8-30.8.2026

Period 2: 10.8-25.10.2026

Period 3: 1.12.2026-6.1.2027

Period 4: 1.12.2026-21.3.2027

- **NOTE!** Changes to these dates might occur. Check updated info in **Sisu**

- More information on **Start**

# MSE25

## First Year Studies; In Total 60cr

- 55cr Mandatory courses
- 5cr Development studies
- Double check the exact courses in the PDF file at the bottom of this page on [Start](#)

MECHANICAL AND SUSTAINABLE ENGINEERING 2025->		Code				
<b>General education studies (15 cr)</b>			<b>Year 1</b>			
<i>Education in a Digital and Sustainable Nordic Society (15 cr)</i>						
	<a href="#">Technology and Learning</a>	AS-1-044	5			
	<a href="#">Teamwork and Innovation</a>	AS-1-045		5		
	<a href="#">Ethical and Sustainable Societal Development</a>	AS-1-046			5	
<b>Professional studies (135 cr)</b>			<b>Year 1</b>			
<i>Basic studies in Technology (30 cr)</i>						
	<a href="#">Linear Algebra</a>	PM-2-026		5		
	<a href="#">Differential calculus</a>	PM-2-025				
	<a href="#">Integral calculus</a>	PM-2-024				
	<a href="#">Engineering Chemistry</a>	GT-2-013	5			
	<a href="#">Engineering Physics</a>	GT-2-014				5
	<a href="#">Introduction to programming and automation</a>	GT-2-024	2,5	2,5		
<i>Sustainable Modelling (15 cr)</i>						
	<a href="#">Environment and Resources</a>	GT-2-015				5
	<a href="#">Sustainable Energy and Materials</a>	GT-2-019				
	<a href="#">Life Cycle Assessment</a>	GT-2-020				
<i>Technical Modelling (15 cr)</i>						
	<a href="#">Technical Drawing</a>	PM-2-030		5		
	<a href="#">Computer Aided Design</a>	PM-2-031			5	
	<a href="#">Programming</a>	GT-2-021				
<i>Materials (30 cr)</i>						
	<a href="#">Materials Chemistry</a>	PM-2-032				
	<a href="#">Manufacturing and Processing</a>	PM-2-034				
	<a href="#">Material properties</a>	PM-2-033				
	<a href="#">Composites</a>	PM-2-035				
	<a href="#">Heat Transfer</a>	PM-1-006				
	<a href="#">Material Selection</a>	PM-2-041				
<i>Engineering Design (30 cr)</i>						
	<a href="#">Statics</a>	PM-2-036				
	<a href="#">Mechanics of Materials</a>	IM-2-042				
	<a href="#">Digital Manufacturing</a>	PM-2-038				
	<a href="#">Finite Element Method</a>	PM-2-003				
	<a href="#">Dynamics</a>	PM-2-037				
	<a href="#">Computer Aided Engineering</a>	PM-2-039				
<i>Professional Kommunikation (15 cr)</i>						
	<a href="#">English Academic Writing</a>	SP-EN-002			2.5	2.5
	<a href="#">Swedish for Beginners 1</a>	SP-SV-002				
	<a href="#">Swedish for Beginners 2</a>	SP-SV-003				

# MTH25

## Första årets studier

### Sammanlagt 60sp

- 60sp obligatoriska kurser
- Dubbelkolla kurserna med PDF-filen längst ner på denna sida på [Start](#)

MATERIALTEKNIK OCH HÅLLBARHET 2025->		Kod	År 1			
<b>Allmänbildande studier (15 sp)</b>						
<b>Bildning i ett digitalt och hållbart nordiskt samhälle (15 sp)</b>						
	Teknologi och lärande	AS-1-044	5			
	Teamwork and innovation	AS-1-045		5		
	Etisk och hållbar samhällsutveckling	AS-1-046			5	
<b>Professionsspecifika studier (135 sp)</b>						
<b>Basstudier i teknik (30 sp)</b>						
	Linjär algebra	EM-1-003		5		
	Differentialkalkyl	EM-1-004				
	Integralkalkyl	EM-1-005				
	Engineering Chemistry	GT-2-013	5			
	Introduktion till programmering och automation	GT-2-024	2,5	2,5		
	Teknisk fysik	GT-2-014				5
<b>Hållbar modellering (15 sp)</b>						
	Environment and Resources	GT-2-015				5
	Sustainable Energy and Materials	GT-2-019				
	Life Cycle Assessment	GT-2-020				
<b>Teknisk modellering (15 sp)</b>						
	Technical Drawing	PM-2-030		5		
	Computer Aided Design	PM-2-031			5	
	Programming	GT-2-021				
<b>Materialteknik (30 sp)</b>						
	Materials Chemistry	PM-2-032				
	Manufacturing and Processing	PM-2-034				
	Material Properties	PM-2-033				
	Composites	PM-2-035				
	Heat Transfer	PM-1-006				
	Material Selection	PM-2-041				
<b>Design (30 sp)</b>						
	Statics	PM-2-036				
	Mechanics of Materials	IM-2-042				
	Digital Manufacturing	PM-2-038				
	Finite Element Method	PM-2-003				
	Dynamics	PM-2-037				
	Computer Aided Engineering	PM-2-039				
<b>Professionell kommunikation (15 sp)</b>						
	English Professional Communication	SP-EN-001			2,5	2,5
	Svenska och kommunikation	SP-SV-001			2,5	2,5
	Työelämän suomi ja viestintä	SP-FI-001				

## 2nd Year Studies, in Total 60cr

	MSE	MTH & Finnish speaking students in MSE
Mandatory courses (excl. Language studies)	50	50
Language studies	10	5
Development Studies	0	5

# Mandatory Language Studies

**MSE / students who have studied in another language than Swe or Fi:**

- English Professional Communication (1<sup>st</sup> year)
- Swedish for Beginners I (2<sup>nd</sup> year)
- Swedish for Beginners II (2<sup>nd</sup> year)

**MTH / students who have had Swe or Fi as school language:**

- English Professional Communication (1<sup>st</sup> year)
- Svenska och kommunikation för ingenjörer [Swedish intermediate level B1-B2 ] (1<sup>st</sup> year)
- Tekniikan Suomi (2<sup>nd</sup> year)



IMPORTANT that all credits that belong to your degree also can be found in your Study plan! (Structure of studies)

You can see your completed credits from My profile -> Passed credits



My profile Search

Home > My profile > Completed credits

**My profile**

Study rights Registrations **Completed credits**

**Completed credits**

ATTAINMENT STATUS

Passed credits



Home > Structure of studies

### My study plan 2025 PRIMARY PLAN

			Selected	Completed
⊖ Mechanical and Sustainable Engineering EDU-324000			Selections done	
⊖ Mechanical and Sustainable Engineering (Ingenjör YH) DP-324000   Selection confirmed to the study right	4.7	Selections done	240-260	255   55
⊖ General education studies ME-5-006	5	Parts completed	15	15   15
⊖ Education in a Digital and Sustainable Nordic Society		Parts completed	15	15   15
	5 cr	Pass	GT-1-013 Technology and Learning	
	5 cr	5	GT-1-014 Teamwork and Innovation	
	5 sp		GT-1-015 Ethical and Sustainable Societal Dev	

# 2<sup>nd</sup> Year Courses

## Period 1 & 2

- Differential Calculus (P1)
- Sustainable Energy and Materials (P1)
- Swedish for beginners I [MSE] /  
Työelämän Suomi [MTH] (P1)
- Integral Calculus (P2)
- Statics (P2)
- Swedish for beginners II [MSE] /  
Development study course [MTH] (P2)

## Period 3 & 4

- Materials Chemistry (P3)
- Mechanics of Materials (P3)
- Manufacturing and Processing  
(P3-P4)
- Programming (P4)
- Material properties (P4)
- Life Cycle Assessment (P4)

Register to **Math Clinic** to see the sessions in your schedule.

->No must to participate; drop-in sessions if you have questions regarding the math courses.

# Development Studies 30cr

## Optional courses

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*In what area do you want to deepen your knowledge?*

### **Examples in your study plan:**

Circular economy (15sp)

Plastic Technology (15cr)

Advanced Materials Technology (15cr)

Project (5-15cr)

Finnish for beginners (15cr) [MSE]

Becoming an entrepreneur pre-incubator program (15cr)

More alternatives later in the presentation...

# Circular Economy, 15cr

Paula Linderbäck

- *2<sup>nd</sup> year*
- Circular Economy Principles, P2
- Circular Economy Sectors, P3
- Circular Economy Indicator, P4

## You will develop:

- A foundational understanding of circularity in sustainability across technical and biological spheres.
- Familiarity with material and energy circularity and current industry developments.
- Skills in systems thinking to identify closed loops, zero-waste solutions, and socio-economic links like the sharing economy.
- The ability to evaluate evidence and propose regenerative or restorative process couplings.
- Insight into the future role of engineers in circular economy.
- Competence in using LCA tools to assess product, process or company performance.
- The ability to distinguish design intent from actual performance and suggest corrective actions for circular transitions.

# Plastic Technology, 15cr

Silas Gebrehiwot

- *3<sup>rd</sup> year + 4<sup>th</sup> year*
- Fluid Mechanics, P2 (3<sup>rd</sup> year)
- Mould Design, P3 (3<sup>rd</sup> year)
- Processing Methods and Optimization, P1 (4<sup>th</sup> year)

## You will:

- Understand basic fluid properties (e.g., density, viscosity) and analyze flow parameters and pressure drops in pipe systems.
- Use FEM in COMSOL to model laminar fluid flow.
- Grasp injection moulding principles, machine components, and two-plate mould design.
- Design moulds, simulate melt flow, prototype, and optimize injection moulding parameters.
- Understand polymer processing technologies and the impact of processing parameters.
- Use computational tools to model, analyze, and optimize processes through design of experiments (DOE).
- Appreciate the value of experimental design in improving process efficiency.

# Advanced Materials Technology, 15 cr

Silas Gebrehiwot, Stewart Makkonen-Craig, Rizwan Ullah

- *3rd year*
- Viscoelasticity, P2
- Material analysis, P2
- Sustainable Product Design, **P3**  
(earlier in P1)

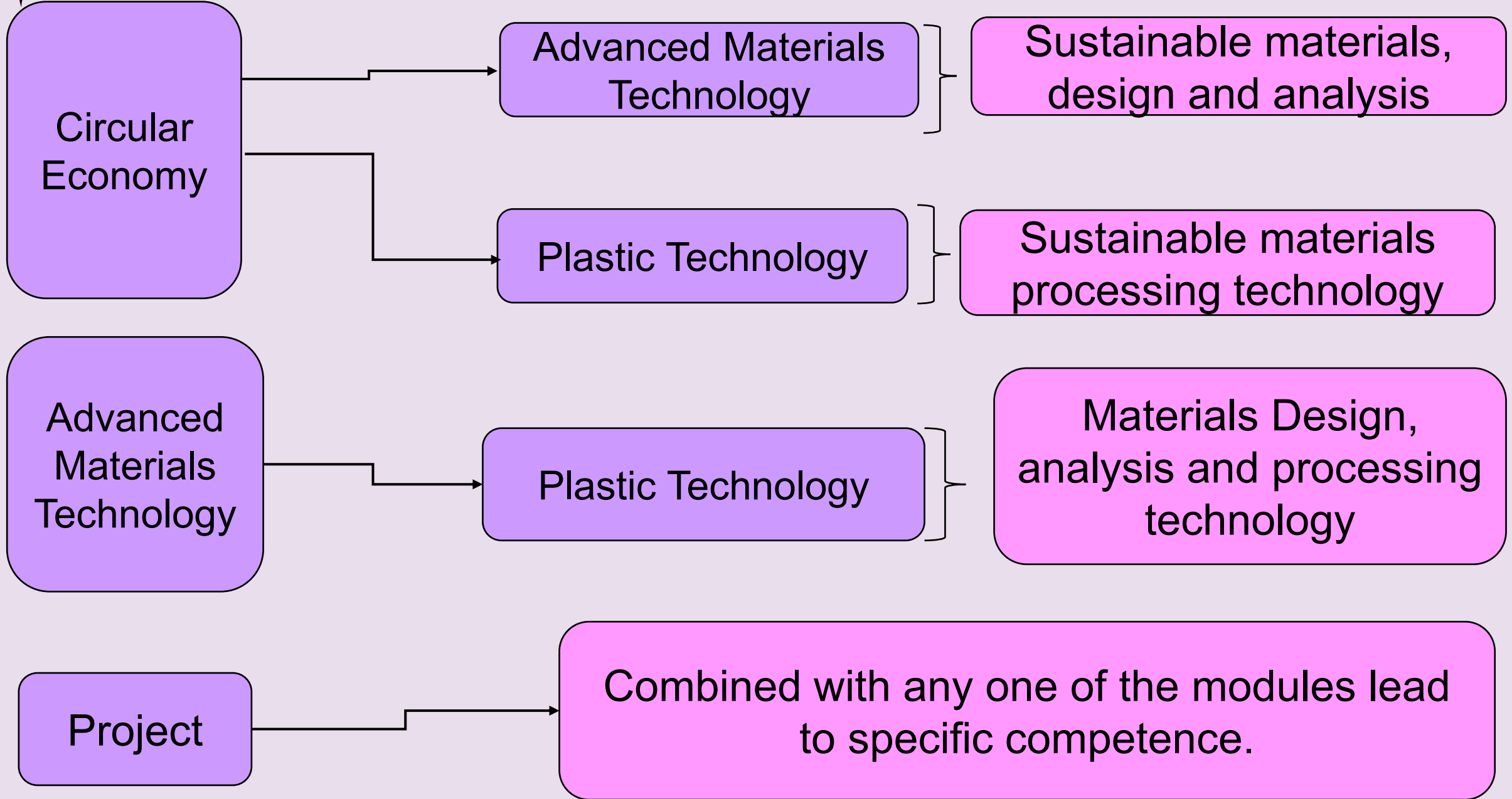
## You will:

- Identify and evaluate sustainable materials and manufacturing processes.
- Apply principles of sustainable product development to engineering design.
- Design efficient, low-waste, resource-conserving products.
- Understand short- and long-term properties of polymers and the effects of temperature.
- Analyze material deformation and mechanical responses using computational models.
- Understand and apply modern material analysis methods.
- Select appropriate analytical techniques for solving engineering material problems.
- Plan, conduct, and interpret material analysis experiments for failure analysis.

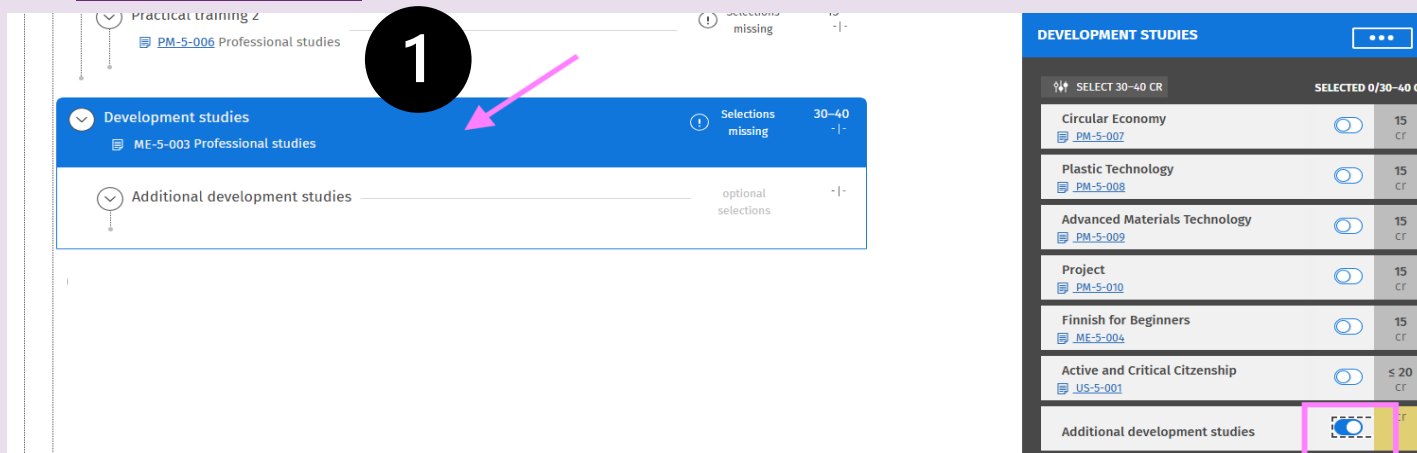
# Project, 5-15cr

## Silas Gebrehiwot

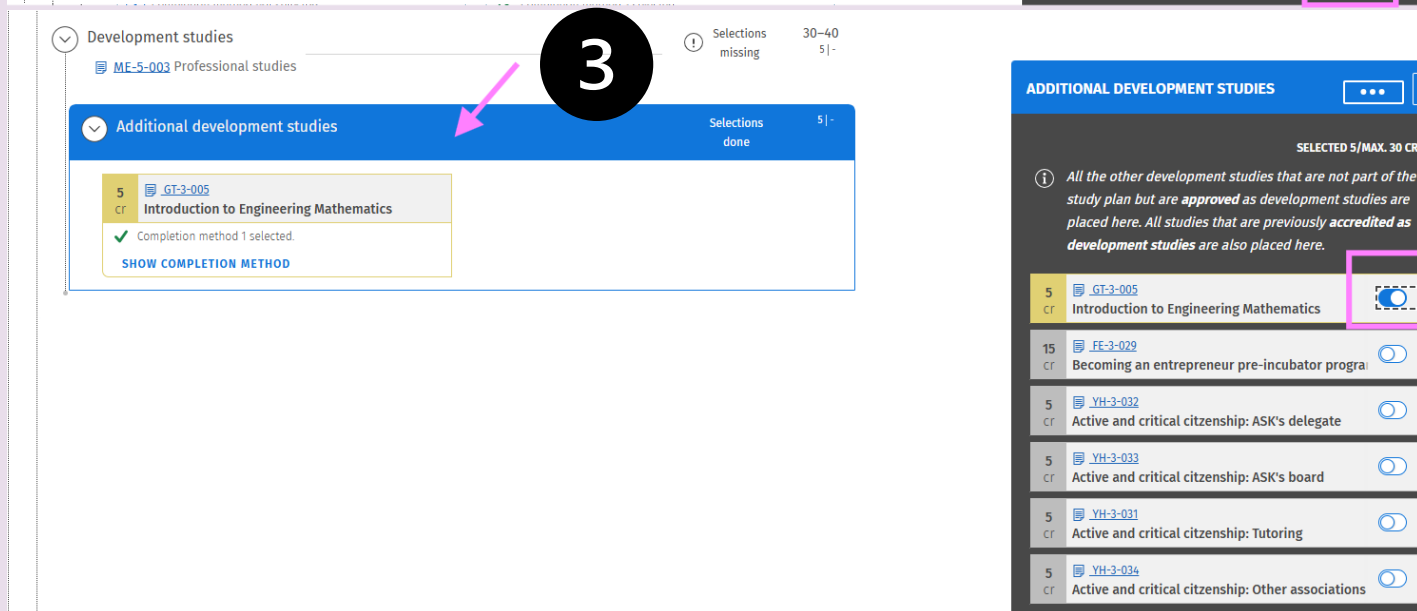
- Theoretical and practical skills learned during the project are to be planned individually for each student.
- Project is planned, executed and reported according to individual study plan or according to the teachers instructions
- P1-P4



# How to view the development study courses in your study plan for MSE / MTH



1. Click on the thin blue line beside "Development studies"



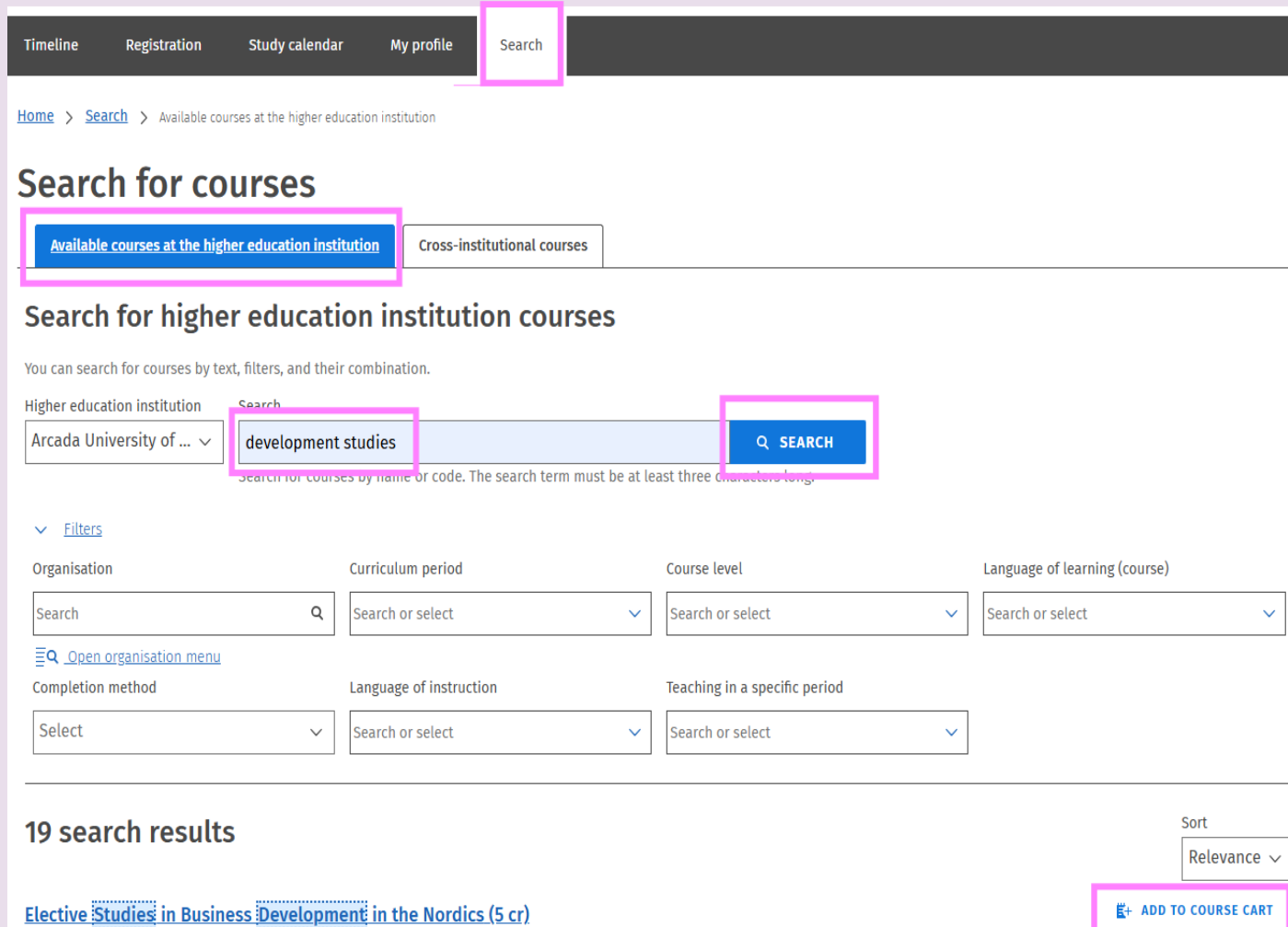
2. From the box that opens up to the right, you can then pick what module(s) you want to choose

3. Then click on the thin blue line beside your chosen module

4. Choose the courses you want to complete from the box to the right

# Additional Development Study Courses @ Arcada

- Search in Sisu
- Check with Rizwan if the course could be a good fit for your study plan.
- Note! You can find **Math clinic** by going to "Search" – "Available courses at the higher education institution" and write "Math clinic" in the search field. You can then register to it from here.



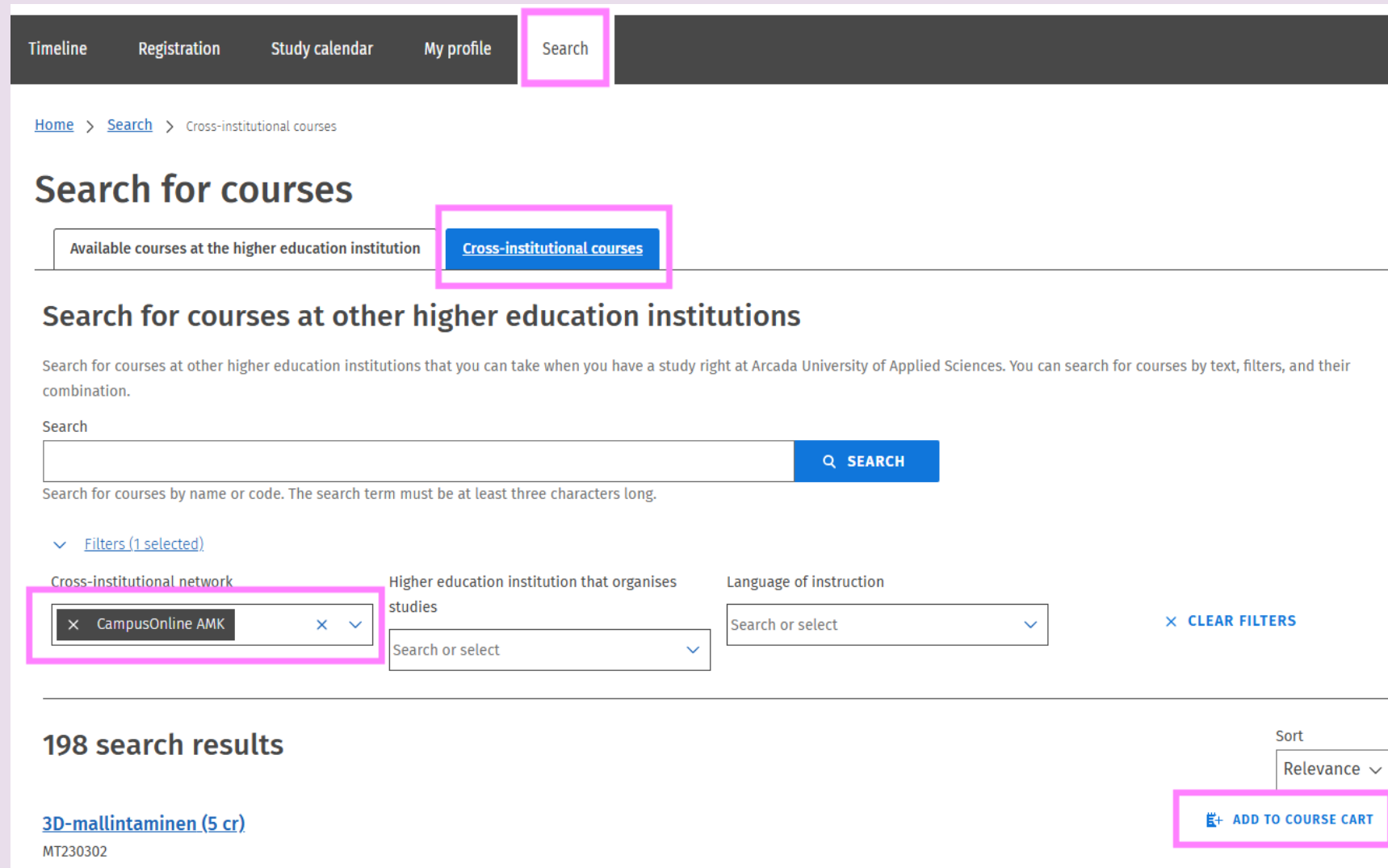
The screenshot shows the Sisu search interface. At the top, there is a navigation bar with links for Timeline, Registration, Study calendar, My profile, and Search. Below this, the breadcrumb trail reads: Home > Search > Available courses at the higher education institution. The main heading is "Search for courses". There are two tabs: "Available courses at the higher education institution" (which is selected) and "Cross-institutional courses". Below the tabs, the heading is "Search for higher education institution courses". A sub-heading states: "You can search for courses by text, filters, and their combination." The search form includes a dropdown for "Higher education institution" (set to "Arcada University of ...") and a search input field containing "development studies". A "SEARCH" button is to the right of the input field. Below the search form, there are several filter sections: "Filters" (expanded), "Organisation" (with a search input), "Curriculum period" (with a dropdown), "Course level" (with a dropdown), "Language of learning (course)" (with a dropdown), "Completion method" (with a dropdown), "Language of instruction" (with a dropdown), and "Teaching in a specific period" (with a dropdown). At the bottom, it shows "19 search results" and a "Sort" dropdown set to "Relevance". A button labeled "ADD TO COURSE CART" is visible in the bottom right corner.

# Development studies from Campus Online in Sisu

More info and guidelines on Start:

- [Video](#)
- [Step by step; text](#)

Check with Rizwan if the course could be a good fit for your study plan.

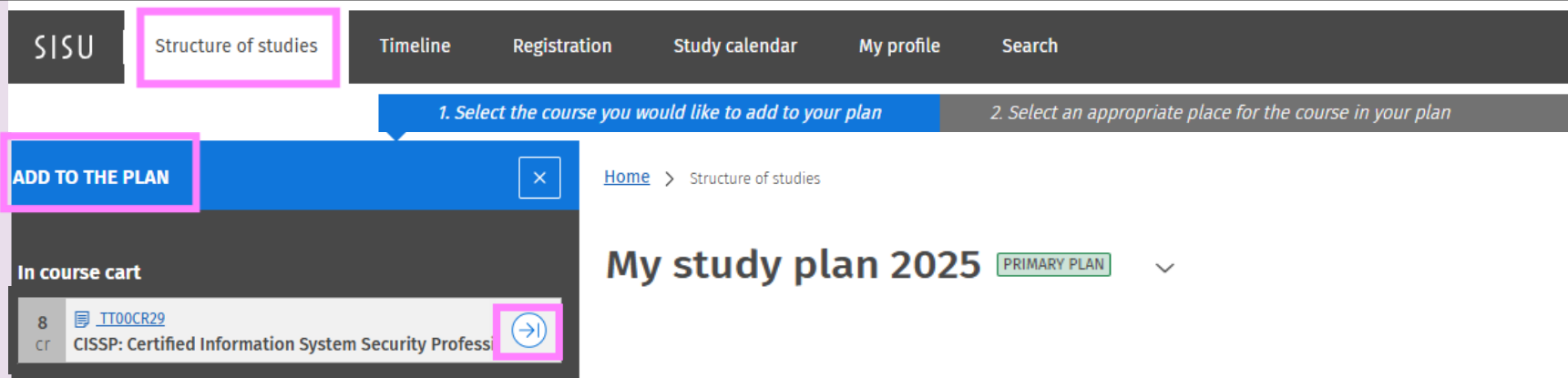


The screenshot shows the Sisu search interface. At the top, there is a navigation bar with links for Timeline, Registration, Study calendar, My profile, and Search. Below this, the breadcrumb trail is Home > Search > Cross-institutional courses. The main heading is "Search for courses". There are two tabs: "Available courses at the higher education institution" and "Cross-institutional courses". The "Cross-institutional courses" tab is selected. Below the tabs, there is a section titled "Search for courses at other higher education institutions" with a search input field and a "SEARCH" button. Below the search field, there is a filter section with a dropdown menu showing "Filters (1 selected)". The selected filter is "Cross-institutional network", which is set to "CampusOnline AMK". There are also dropdown menus for "Higher education institution that organises studies" and "Language of instruction". A "CLEAR FILTERS" button is visible. At the bottom, it shows "198 search results" and a "Sort" dropdown menu set to "Relevance". A button "ADD TO COURSE CART" is visible at the bottom right.

# Add Course to Your Study Plan

## from Arcadas general selection or Campus online

If you have added a course to the cart; Go to "Structure of studies" -> click on "Add to the plan" which is found to the left -> click on the arrow next to the course you want to add



SISU Structure of studies Timeline Registration Study calendar My profile Search

1. Select the course you would like to add to your plan 2. Select an appropriate place for the course in your plan

ADD TO THE PLAN

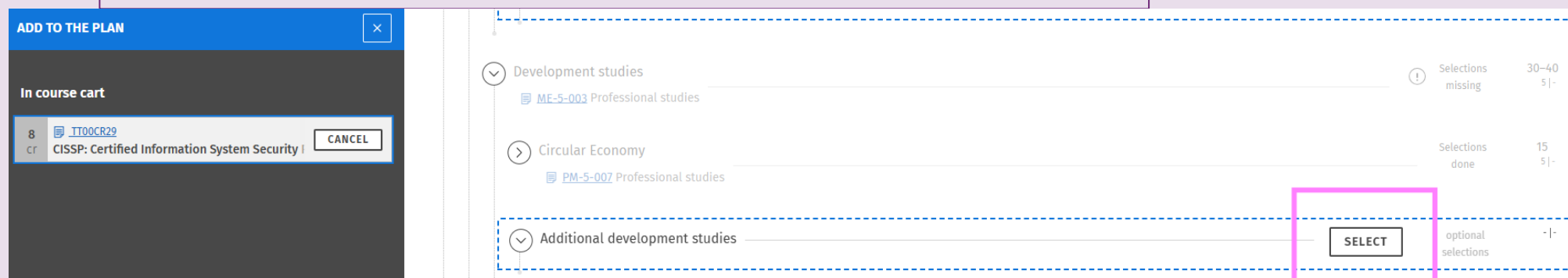
In course cart

8 cr TT00CR29 CISSP: Certified Information System Security Profess

Home > Structure of studies

My study plan 2025 PRIMARY PLAN

Scroll down until you come to Development studies – **Additional Development studies** and click on **Select**



ADD TO THE PLAN

In course cart

8 cr TT00CR29 CISSP: Certified Information System Security I CANCEL

Development studies 30-40 Selections missing 51-

ME-5-003 Professional studies

Circular Economy 15 Selections done 51-

PM-5-007 Professional studies

Additional development studies optional selections -1-

SELECT

# Registration for the Academic Year

- **Remember to register for the academic year!** (present / absent)
  - 15.4–10.9
  - Finnish legislation requires a mandatory registration for each academic year for all students, or they will lose their right to study.
  - Needs to be done before you register to courses in August!
  - Questions? Contact Study Affairs
- **Course registration for Period 1**
  - 10.8-30.8
  - Instructions for course registration can be found on Start: [Through the study plan](#) / [Through the timeline](#)
- **As a student at UAS you are responsible for your own studies and for registering to your courses before the deadline!**

# Practical Training, 15cr + 15cr

- **Can include:**
  - Engineering tasks
  - Sustainability-related work
  - Managerial or economic work in engineering contexts
- **Practical training 1 - Introductory Work Experience (15cr)**
  - Will give a basic orientation into working life.
  - Good if the internship is at a company that is relevant in the field (even if tasks e.g. in customer service), but this is not necessary if done in Finland
  - If completed abroad, it needs to be related to engineering
- **Practical Training 2 - Professional Work Practice (15cr)**
  - Must always include profession-specific tasks; **work related to your MSE/MTH studies.**
  - E.g. Engineering work in any industry and Sustainability-focused roles

# Practical Training 15cr + 15cr

## Where?

- In Finland
- Abroad

## When?

- During the 4<sup>th</sup> year (in the study plan)
- Often during summer after 2<sup>nd</sup> / 3<sup>rd</sup> year

## How long?

- Full-time work; 10 weeks
- Part time work; 400h

- ❖ **You are responsible for finding your own internship position!**
- ❖ **Contact Rizwan if you are unsure what can be approved as practical training.**
- ❖ **Check more details at [Start](#)**

# Practical Training 15cr + 15cr

- **Enroll to Practical training 1 & 2 in SISU**
  - access to documents and instructions in itsLearning
- If you are paid for your work during your internship;
  - you are in a regular employment relationship
  - a formal practical training contract is not needed
- If you do not have a salary during your internship;
  - you should have a **practical training contract** (itslearning) signed by the employer, you and your degree program director, before you start the internship.
- After the practical part is completed;
  - **hand in a report & work certificate**

# How to Find an Internship Position?

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- [Arcada Job Portal](#) (online career services for students)
  - Create a profile, upload your CV, find jobs, take part in (online) events, follow companies, get updates to your email and more.
- [Career center Arabia](#)
  - Career counselling; help with searching for a job, applying for jobs, CV, LinkedIn & preparations before job interviews.
  - Workshops & events.
- [Työmarkkinatori](#) (Swe/Fi)
- [Insinööriiton Työpaikkatori](#) (Fi)
- [Duunitori – kesätyöt](#) (Fi)
- [Finland Jobs](#)
- [Laura](#)
- [Hello Talent](#)
- [STRYV](#)



Read  
Arcada  
mail!



Be active!



Participate  
in events!

# Networking & Other Events

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## At Arcada:

- My Future work
  - Recruiting and networking event in January!
- KC Arabia
  - CV clinics
  - LinkedIn workshops
  - Summer job workshops
  - Photos for CV

## Outside of Arcada:

- [Contact Forum](#)
- [Job Teaser: How to master your job interview?](#)
- Events by [International House Helsinki](#)
- [LinkedIn työnhaussa: Parhaat käytännöt ja vinkit](#) (Webinair in Finnish by Talent Center)
- [Espoo Talent Match](#)

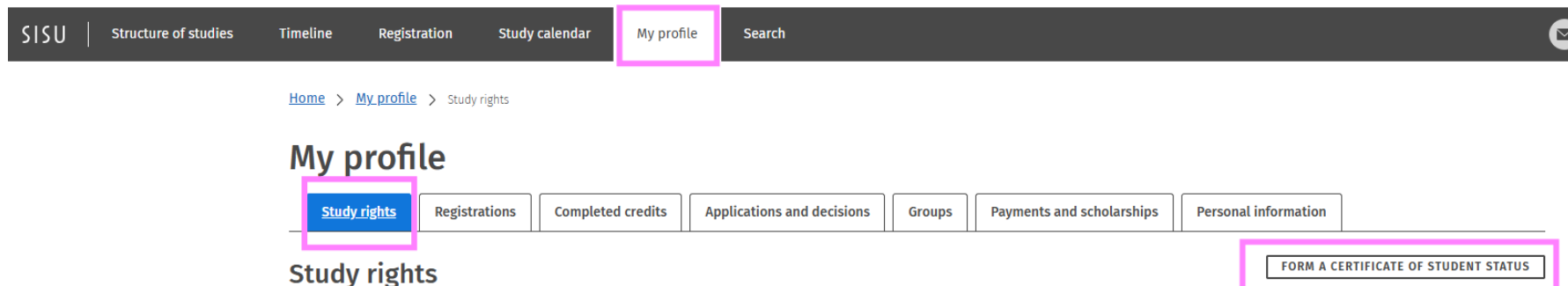
# Examples of Companies Where Students Have Been on Practical Training

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- ABB Oy
- Aidon OY
- Ainak Oy
- AKA Corporation Oy
- Borealis Polymers Oy
- Creators Oy
- Fennovoima Oy
- Finnvacum
- GA Telesis
- Muoviyhdistys ry
- Geberit Productions OY
- INKOO Shipping Oy
- Tiivistekeskus
- Plastoco
- Ensto
- NRG Finland Oy
- Nordex Energy GmbH
- Nord pipe composite engineering
- Saint-Gobain Finland Oy
- SEW EuroDrive
- Swappie Oy
- Termonova
- UPM
- Woodio Oy
- Wärtsilä
- Plastek
- Walki

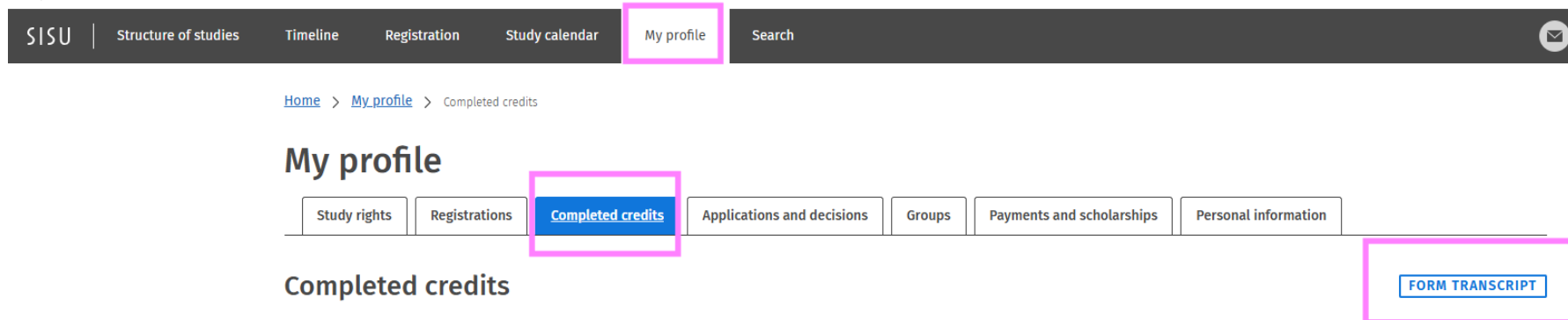
# Certificate of Student Status & Transcript of records from Sisu

## Certificate of Student Status:



The screenshot shows the Sisu website's navigation bar with 'My profile' highlighted. Below the navigation bar, the breadcrumb trail is 'Home > My profile > Study rights'. The 'My profile' section has a sub-menu where 'Study rights' is selected. A button labeled 'FORM A CERTIFICATE OF STUDENT STATUS' is visible in the bottom right corner of the main content area.

## Transcript of records:



The screenshot shows the Sisu website's navigation bar with 'My profile' highlighted. Below the navigation bar, the breadcrumb trail is 'Home > My profile > Completed credits'. The 'My profile' section has a sub-menu where 'Completed credits' is selected. A button labeled 'FORM TRANSCRIPT' is visible in the bottom right corner of the main content area.



# Exchange Studies?

- Why? Enriching experience on both academic and personal level
- Exchange studies are to be integrated in your degree and should not delay your graduation.
- Development studies / courses that replace obligatory courses at Arcada
- More information from Start:
  - <https://start.arcada.fi/en/my-studies/exchange-studies-and-practical-training-abroad/exchange-studies>
  - Christa will give an online info session in the beginning of September



## To Do

- Check that everything ok in SISU! (credits and personal information)
- Register for the academic year 26-27 (15.4–10.9)
- Tuition fee paying students:
  - Apply for scholarship!
  - Pay the tuition fee!
- Course enrollment (10.8-30.8)
- Read your Arcada email regularly

# Who to Contact?

- **Study Counsellor:**
  - individual study plans, selection of courses, slower/faster study pace and other study related questions.
- **International Student Advisor Laurits Møller:**
  - practical matters about living/studying in Finland
- **Student Affairs:**
  - Certificates, registration for the academic year, tuition fees, scholarships, student discounts, changes in the student registry, administration of accreditation etc.
- **Psychologist & Study social worker**
  - Wellbeing, lack of motivation, study technique
- **IT-Support; Library's Support; Career Services**

Questions?





**TACK!  
THANK YOU!  
KIITOS!**

*Have a nice summer!*



**arcada.fi**

**arcada.fi**

