# ARCADA UNIVERSITY OF APPLIED SCIENCES







# Info Session – Second Year Studies

MSE24 & MTH24 Sofie Sundström & Laurits Møller 7.5.2025



## **Topics Today**

- Who to Contact?
- Academic Year 25-26
- The First- and Second-Year Studies
- Language Studies
- Development Studies
- Registration for the Academic Year & Course Enrollment
- Practical Training
- Exchange Studies
- Student Dialogue
- Tuition fee & Scholarship



### 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.

#### SISU Support:

- Instructions for SISU, technical issues with SISU, if you need help with using SISU
- IT-Support; Library's Support; Career Services



#### Academic Year 2025-2026

#### Periodization:

Period 1: 1.8 – 26.10.2025

Period 2: 27.10 – 31.12.2025

Period 3: 1.1 – 22.3.2026

Period 4: 23.3 – 31.7.2026

• Tuition starts: 28 August 2025

• No tuition (winter break): 20 December 2025 – 6 January 2026.

#### Course registration:

Period 1: 11 – 27.8.2025

Period 2: 11.8 – 20.10.2025

Period 3: 2 – 31.12.2025

Period 4: 2.12.2025 –16.3.2026

- NOTE! Changes to these dates might occur. Check updated info in Sisu
- More information on <u>Start</u>



# MSE24 First Year Courses; In Total 60cr

- 55cr Mandatory courses
- 5cr
   Development studies
- Double check the exact courses in the PDF file on Start

Function studies (15 sp)	MECHANICAL AND SUSTAINABLE ENGINEERING	Kod				
Technology and Learning	eneral education studies (15 sp)		Year 1			
Teamwork and Innovation	Education in a Digital and Sustainable Nordic Society (15 sp)		P1	P2	P3	P4
Ethical and Sustainable Societal Development   GT-1-015   6	Technology and Learning	GT-1-013	5			
Professional studies (165 sp)   Basic studies in Technology (30 sp)	Teamwork and Innovation	GT-1-014		5		
Basic studies in Technology (30 sp)	Ethical and Sustainable Societal Development	GT-1-015			5	
Basic studies in Technology (30 sp)						
Linear Algebra   PM-2-026   5	Professional studies (165 sp)			Yea	ar 1	
Differential calculus	Basic studies in Technology (30 sp)					
Integral calculus	Linear Algebra	PM-2-026		5		
Engineering Chemistry   Engineering Physics   GT-2-014   Sequence   Introduction to programming and automation   GT-2-024   Sustainable Modelling (15 sp)	Differential calculus	PM-2-025				
Engineering Physics   Introduction to programming and automation   Introduction to programming   Introduction   Internation   Introduction   Introduction   Introduction   Introduction   Internation   Internatio	Integral calculus	PM-2-024				
Engineering Physics   Introduction to programming and automation   Introduction to programming   Introduction   Internation   Introduction   Introduction   Introduction   Introduction   Internation   Internatio	Engineering Chemistry	GT-2-013	5			
Introduction to programming and automation   GT-2-024   2.5   2.5		GT-2-014				5
Sustainable Modelling (15 sp)		GT-2-024	2.5	2.5		
Environment and Resources   SI-2-015   Sustainable Energy and Materials   GI-2-019   Sustainable Energy and Materials   GI-2-020   SI-2-019   SI-2-020				•	•	
Life Cycle Assessment   GT-2-020		GT-2-015				5
Life Cycle Assessment   GT-2-020	Sustainable Energy and Materials	GT-2-019				
Technical Modelling (15 sp)		GT-2-020				
Technical Drawing				•		
Computer Aided Design		PM-2-030		5		
Programming   GT-2-021		PM-2-031			5	
Materials (30 sp)         Materials Chemistry         PM-2-032	· · · · · · · · · · · · · · · · · · ·	GT-2-021				
Materials Chemistry				•		
Manufacturing and Processing Material properties Composites PM-2-033 PM-2-035 PM-2-035 PM-1-006 Material Selection PM-2-041  Engineering Design (30 sp) Statics Mechanics of Materials Digital Manufacturing PM-2-036 Pinite Element Method PM-2-038 Pinite Element Method PM-2-039 Professional Communikation (15 sp) English Professional Communication MSE Swedish for Beginners 2 Practical Training (30 sp) Practical Training (1 can be taken in any summer between 1st and 2nd year) PM-2-033 PM-2-034 PM-2-039 PM-2-039 PM-2-039 PM-2-039 PP-2-028 SP-1-044 PPactical Training (30 sp) Practical Training (1 can be taken in any summer between 1st and 2nd year) PM-5-005		PM-2-032				
Material properties		PM-2-034				
Composites		PM-2-033				
Heat Transfer						
Material Selection PM-2-041  Engineering Design (30 sp)  Statics PM-2-036 Mechanics of Materials IM-2-042 Digital Manufacturing PM-2-038 Finite Element Method PM-2-030 Dynamics PM-2-037 Computer Aided Engineering PM-2-037 Computer Aided Engineering PM-2-039  Professional Communikation (15 sp) English Professional Communication MSE SP-2-028 Swedish for Beginners 1 SP-1-004 Swedish for Beginners 2 SP-1-044  Practical Training (30 sp) Practical Training (10 sp)		PM-1-006				
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I INVESTIGATION OF A CONTROL OF	Practical Training 2 (can be taken in any summer between 2nd and 3rd year)	PM-5-006				



# MTH24 Första årets kurser Sammanlagt 60sp

- 60sp obligatoriska kurser
- Dubbelkolla kurserna med PDFfilen på <u>Start</u>

MATERIALTEKNIK OCH	I HÅLLBARHET & PROCESS- OCH MATERIALTEKNIK	Kod				
Allmänbildande studier (15 sp)		År 1				
Bile	dning i ett digitalt och hållbart nordiskt samhälle (15 sp)		P1	P2	P3	P4
	Teknologi och lärande	GT-1-010	5			
1	Teamarbete och innovation	GT-1-011		5		
	Etisk och hållbar samhällsutveckling	GT-1-012			5	
	Professionsspecifika studier (165 sp)		År 1			
Bas	sstudier i teknik (30 sp)					
	Linjär algebra	EM-1-003		5		
	Differentialkalkyl	EM-1-004				
	Integralkalkyl	EM-1-005				
	Teknisk kemi	GT-2-013	5			
	Introduktion till programmering och automation	GT-2-024	2.5	2.5		
	Teknisk fysik	GT-2-014				5
Håi	llbar modellering (15 sp)					
	Miljö och resurser	GT-2-015				5
	Hållbar energi och material	GT-2-019				
	Livscykelanalys	GT-2-020				
Tel	Teknisk modellering (15 sp)					
	Teknisk ritning	PM-2-030		5		
1	Computer Aided Design	PM-2-031			5	
	Programmering	GT-2-021				
Ma	terialteknik (30 sp)					
	Materialkemi	PM-2-032				
	Tillverkning och processer	PM-2-034				
	Materialegenskaper	PM-2-033				
	Kompositer	PM-2-035				
	Värmeöverföring	PM-1-006				
	Materialval	PM-2-041				
Des	sign (30 sp)					
	Statik	PM-2-036				
	Materialmekanik	IM-2-042				
	Digital tillverkning	PM-2-038				
	Finita elementanalys	PM-2-003				
	Dynamik	PM-2-037				
	Computer Aided Engineering	PM-2-039				
Pro	ofessionell kommunikation (15 sp)					
	English Professional Communication	SP-2-026			2.5	2.5
1	Svenska och kommunikation för ingenjörer	SP-2-024			2.5	2.5
	Tekniikan suomi	SP-2-027				
Pra	aktik (30 sp)					
1	Praktik 1 (kan avläggas under sommaren efter år 1 eller år 2)	PM-2-004				
	Praktik 2 (kan avläggas under sommaren efter år 2 eller år 3)	PM-2-005				



## 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



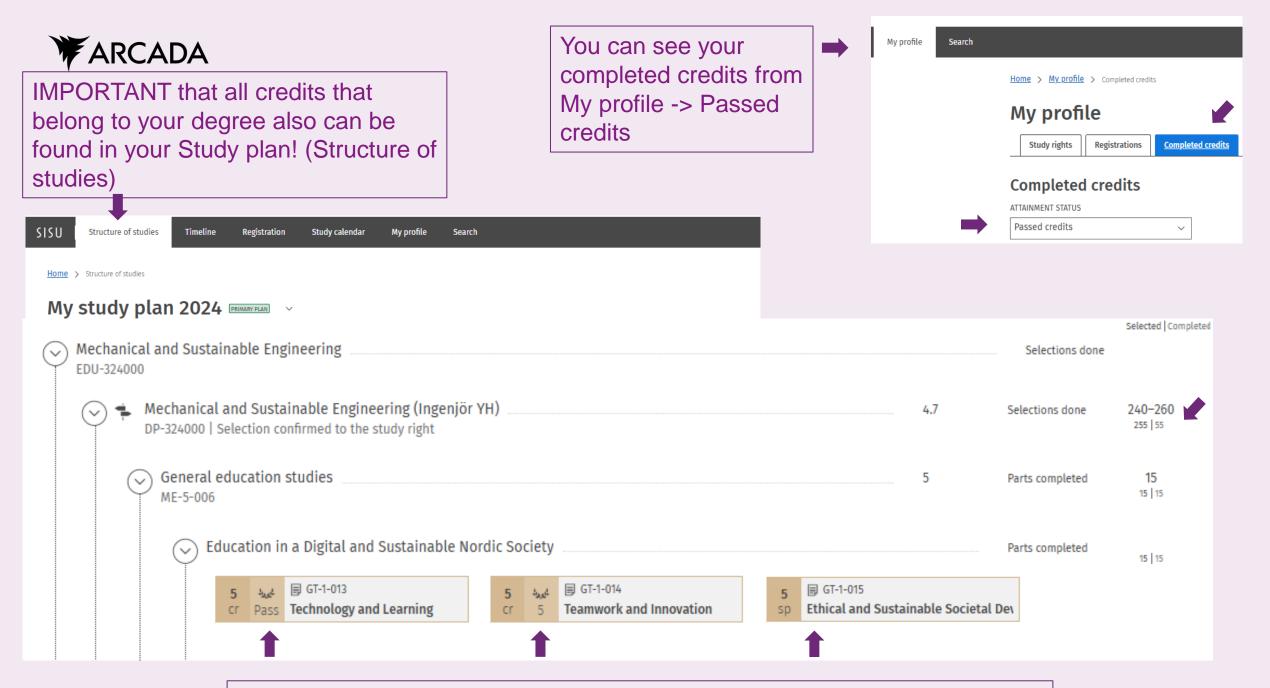
## **Obligatory Language Studies**

## 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:

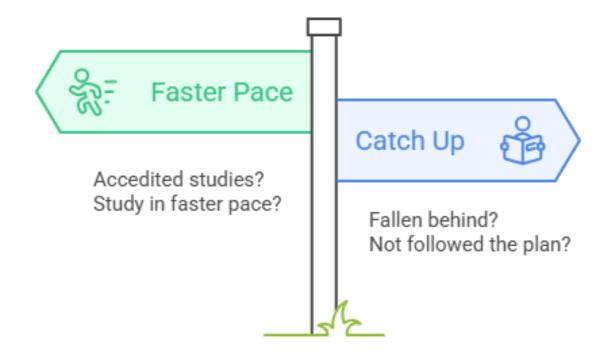
- English Professional Communication (1<sup>st</sup> year)
- Svenska och kommunikation för ingenjörer [Swedish intermediate level B1-B2] (1<sup>st</sup> year)
- Tekniikan Suomi (2<sup>nd</sup> year)



If you have questions or problems, contact SISU SUPPORT (sisu@arcada.fi)!



#### **Individual Study Plan?**



-> Contact Study Counsellor



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

### **Period 1 & 2**

- Differential Calculus (P1)
- Sustainable Energy and Materials (P1)
- Swedish for beginners I [MSE] / Tekniikan 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 Material (P3)
- Manufacturing and Processing (P3-P4)
- Programming (P4)
- Material properties (P4)
- Life Cycle Assessment (P4)



## Development Studies 30cr Optional courses

In what area do you want to deepen your knowledge?

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

Circular economy (15sp)

Plastic Technology (15cr)

Advance Materials Technology (15cr)

Project (5-15cr)

Finnish for beginners (15cr) [MSE]

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, zerowaste 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 Rizwan Ullah, Silas Gebrehiwot, Stewart Makkonen-Craig

- 3rd year
- Sustainable Product Design, P1
- Viscoelasticity, P2
- Material analysis, P2

#### 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.

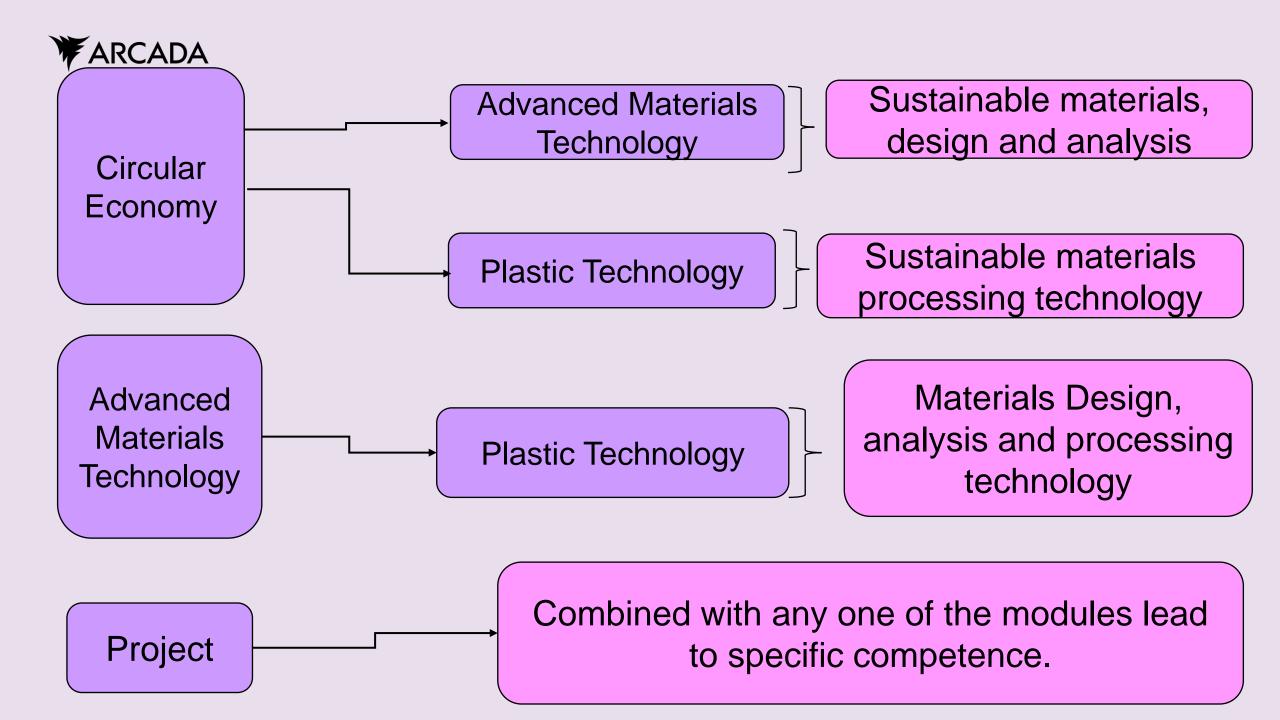


#### Project, 5-15cr Silas Gebrehiwot

 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





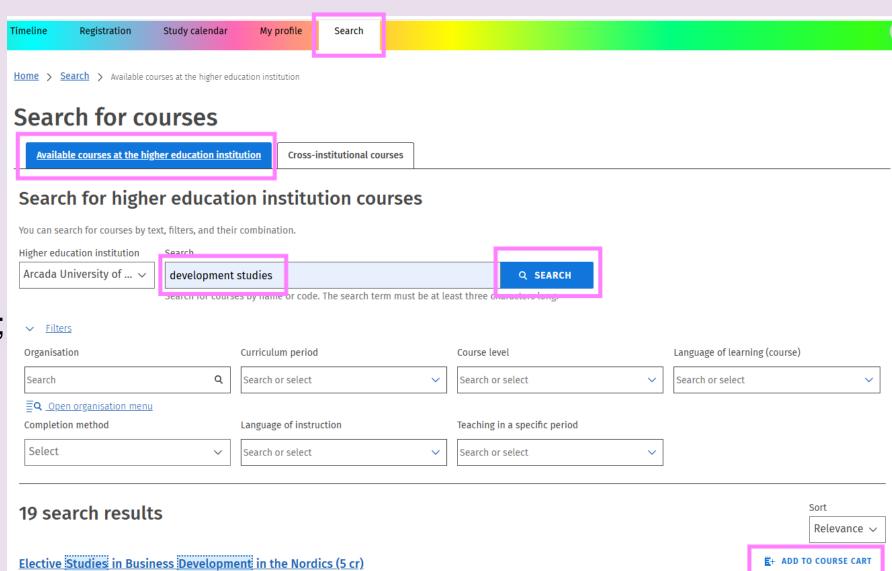
Additional Development Study Courses @ Arcada

Search in Sisu

Example:

Entrepreneurship 15cr

If not Entrepreneurship; Check with Rizwan if the course could be a god fit for your study plan.



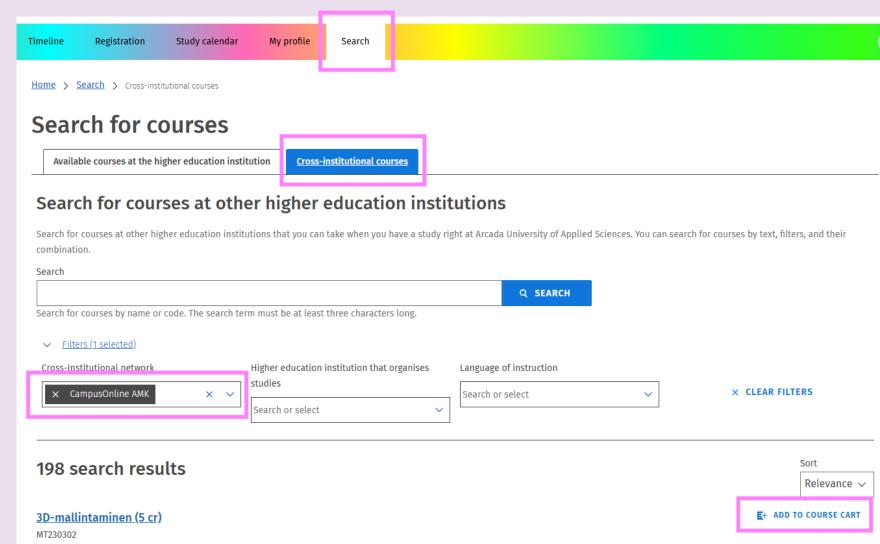


## Campus Online in Sisu

More info and guidelines on Start:

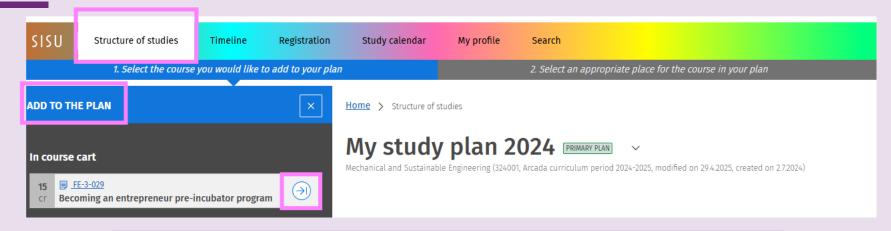
- Video
- Step by step; text

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

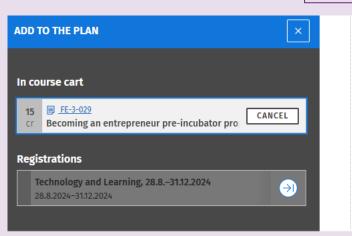


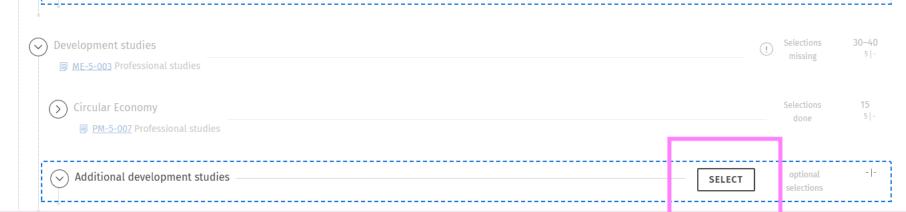


## Add Course to Your Study Plan



Scroll down until you come to Development studies – **Additional Development studies** and click on **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.
  - Questions? Contact Study Affairs
- Course enrollement for Period 1
  - 11.8-27.8
  - Choose the 2024-2025 version
  - If you enroll to a course from first year, choose the 2025-2026 version
- NOTE! Important information regarding Tuition Fees and scholarship for MSE students in the end



## Practical Training, 15 + 15 cr

#### · Can include:

- Engineering tasks
- Sustainability-related work
- Managerial or economic work in engineering contexts

#### Practical training 1 - Introductory Work Experience (15 ects)

- 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.

#### • Practical Training 2 - Professional Work Practice (15 cr)

- Must always include profession-specific tasks; work related to your MSE 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 <a href="Start">Start</a>



## Practical Training 15 cr + 15cr

- Enroll to Practical training 1 and 2 in SISU
  - >access to documents and instructions in itsLearning
- If you are <u>paid</u> 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 programme director, before you start the internship.
- After the practical part is completed;
  - > hand in a report & work certificate



## How to Find an Internship Position?

- 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.
- <u>TE-tjänster</u> (Swe/Fi)
- Insinööriliiton Työpaikkatori (Fi)
- <u>Duunitori kesätyöt</u> (Fi)
- Finland Jobs
- Laura

Read Arcada mail!

Be active!

Participate in events!



## **Networking & Other Events**

#### 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 <u>Luckan</u> and <u>International House</u> <u>Helsinki</u>
- TE office; Helsinki employment services
- <u>LinkedIn työnhaussa: Parhaat käytännöt</u> <u>ja vinkit</u> (Webinair in Finnish by Talent Center)
- Espoo Talent Match



## Examples of Companies Where Students Have Been on Practical Training

- 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



### **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/mystudies/exchange-studies-andpractical-training-abroad/exchangestudies

## Student dialogue

- On Monday 12.5 at 13-14
- D4109/Zoom
- Chance to give feedback and discuss with Rizwan and Sofie
- Your opinion is valuable!



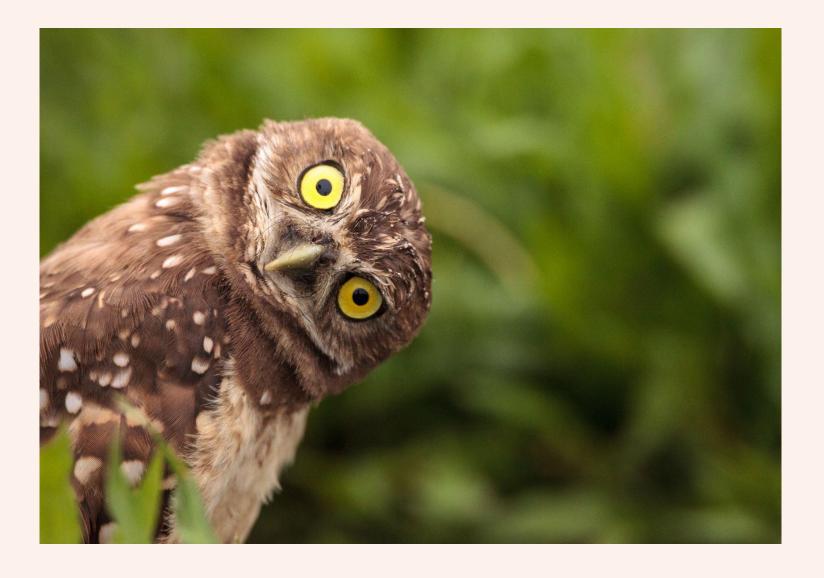


#### To Do

- Check that everything ok in SISU! (credits and personal information)
- Register for the academic year 25-26 (15.4–10.9)
- Tuition fee paying students:
  - Apply for the scholarship!
  - Pay the tuition fee!
- Course enrollment (11.8-27.8)



Questions?





# TACK! THANK YOU! KIITOS!

Have a nice summer!



arcada.fi







### **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 2024 can get a 40% 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/





## How to and when to apply for a scholarship

- Apply through the scholarship form online. (See second to last slide for links)
- 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 16 June 2025. 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 <a href="mailto:studentaffairs@arcada.fi">studentaffairs@arcada.fi</a> 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 2024 without a scholarship: 9500€ or 4750€/semester
  - Tuition fee for those with a scholarship: 5700€ or 2850€/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 certificate
    of payment and scholarship (if applicable to you) and register you as
    attending for the academic year

## Q/A hybrid session regarding scholarships

19 May 13.00 – 14.00

- D4109
- Through Teams: Join the meeting now
- You are welcome to come and meet with Student Affairs and ask questions about eligibility and the process





## Helpful links regarding scholarships and tuition fees

- Find step-by-step instructions for Flywire payments here: <a href="https://start.arcada.fi/en/my-studies/tuition-fees/tuition-fee-payment/tuition-fee-payment-step-by-step-instructions">https://start.arcada.fi/en/my-studies/tuition-fees/tuition-fee-payment-step-by-step-instructions</a>
- Scholarship criteria: <a href="https://start.arcada.fi/en/my-studies/tuition-fees/scholarships/scholarship-criteria#scholarship-criteria-if-you-were-admitted-in-2024">https://start.arcada.fi/en/my-studies/tuition-fees/scholarships/scholarship-criteria#scholarship-criteria-if-you-were-admitted-in-2024</a>
- How to apply for a scholarship: <a href="https://start.arcada.fi/en/my-studies/tuition-fees/scholarships#scholarship-application">https://start.arcada.fi/en/my-studies/tuition-fees/scholarships#scholarship-application</a>