



NTU "KhPI" - RWTH Aachen Student Exchange Prorgam

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Aachen

- Aachen is known from ancient times and developed from a Roman settlement and thermae (bath complex)
- → Westernmost city of Germany, Located at DE-NL-BE triangle
- → Population ~250k
- → Very young city (50k students)
- → Was a capital of Holy Roman Empire (800-1562) and place where kings were crowned
- Aachen cathedral (ca. 805) was one of the first 12 items to be listed on the UNESCO list of World Heritage sites





RWTH (Rheinisch-Westfälische Technische Hochschule) Aachen

- → Founded in 1870
- → Almost 50k students

- —— Greatly supports Ukraine (more than 1 million Euro in donations), 50+ students from Ukraine have scholarship





Study Program

Year	NTU "KhPI" (240 CP)	RWTH Aachen (180 CP)	German skill obtained
2022	1		B1
	2		B2
2023	3	1	
	4	2	C1
2024	5	3	
	6	4	
2025	7	5	
	8	6	

Key dates

- → 09.01.2023 19.02.2023 Marathon in Innovation Campus
- → 01.04.2023 Application deadlines
- → 01.10.2023 Deutsch B2 / English B2
- → 10.2023 Start of study

Evaluation

- → Up to 20 Students!
- → Grades from 1st semester:
 - English
 - Higher Math I
 - Physics
 - Programming Basics I
 - Software Engineering Basics
- Language achievements (Deutsch B1/ English B1).
- Innovation campus selection process (Marathon)
- → Marathon (full) counts as semester work in SE2023 and (partial 1 week) practice in WE2023













Innovation Campus is joint project of UFuture fund and NTU "KhPI"

- → Established in 2018
- → First (draft) run in 2019
- Fully integrated into bachelor study in 2020
- → 27.01.2022 Opening of final location

International Recognition



QS Higher Education Summit

Silver Award in Europe region of 2022 QS Reimagine Education Awards



1885

What is your Dream (career path)?



Start-up (founder/engineer)



Researcher (bachelor → master → PhD)



Developer (outsource/product)

1885

What are the skills of tomorrow?

B. Top 15 skills for 2025

1	Analytical thinking and innovation	9	Resilience, stress tolerance and flexibility
2	Active learning and learning strategies	10	Reasoning, problem-solving and ideation
3	Complex problem-solving	11	Emotional intelligence
4	Critical thinking and analysis	12	Troubleshooting and user experience
5	Creativity, originality and initiative	13	Service orientation
6	Leadership and social influence	14	Systems analysis and evaluation
7	Technology use, monitoring and control	15	Persuasion and negotiation
8	Technology design and programming		

Source

Future of Jobs Survey 2020, World Economic Forum.



How to get those skills?

- ---- Challenge-based learning
- ----> Peer-to-peer
- ---- Individual & Team assignments
- → Teamwork & communication
- Knowledge sharing
- ---- Gamification



Structure of Innovation Campus



Silver bullet -> Dual education

- Work where you study, study while working!
- True individual learning path!
- Close integration! No additional courses or academies necessary!
- How do we achieve that? Company processes and requirements are integrated into their challenges!

- Full support from experienced employees
- Monthly reports of your progress
- Coworking zone is available at Campus
- All your activities will be tracked by company and considered as a part of your study program!

Rules of engagement

- (Almost) No lectures!
- → No additional fee for Ukrainian students!
- ——→ You still have some math, English and sports obligatory!
- Everything is online!
- → Do not forget to register to group assignments!
- Group should consist of 4 people max!
- ——— Every group challenge (after Marathon) must be presented!
- Campus is available 24/7 (no sleeping allowed!)

Worst mistake ever!



- No Plagiarism is acceptable!
- Team challenge doesn't mean the same code for all!
- First time zero score for whole task
- Second time say goodbye to Innovation Campus!



Team



Volodymyr Head of Innovation Campus



Mariia
University Communication
Manager



IrynaCommunity Manager



Rositsa
Companies
Communication Manager



Artem
Technical Manager



GregoryLMS Green Team Lead



Pavlo
Methodology and
Technical Manager

Let's Start!

- Start improving your German and English!
- --- Check your e-mail at the beginning of January 2023
- ----- Register!
- → Accept challenge!
- (Bonus) Ask you experienced colleagues for feedback!



Ask your question in chat!