



# INNOEDUHACK 2025

**17** It's November 14th, 9:00 AM CET.

You now have 24 hours to develop your solution for the future of education.  
You can work **individually** or in teams of **up to 5 people**.

- 👉 Each team member must register separately - [LINK](#)
- 👉 Only one person per team needs to upload the final project.
- 💡 15 prizes of **300 EUR** each will be awarded **per project**, not per person.
- 🕒 Deadline: **November 15th, 9:00 AM CET.**

Please submit a one-page solution (this page + one page for your solution).

## TEAM INFORMATION:

Team name: Focus Band

NO.	NAME & SURNAME	UNIVERSITY If ALK student, include the year of studies, the name of the program and Student ID Number
1	Aleksandra Bielińska	1st MSc ALK 56565
2	Marina Morari	1st MSc ALK 56260
3	Alex Biene	1st MSc ALK 53946
4	Oliwier Kowalczyk	1st MSc ALK 56258
5	Jakub Kutera	1st MSc ALK 56259

**!!** Meta-Category is: **Digital Transformation & AI** – all ideas should address changes driven by digitalisation and new technologies, especially AI.

### Select Your Category (choose one):

- Assessment & Grading – new models for evaluating student performance
- Teacher Support – tools helping educators deliver engaging classes
- Student Support – solutions that improve the learning experience

### Recommended Solution Template:

- 1. Problem Statement:** One-sentence definition of the problem (the essence).
- 2. AS IS:** Current Situation: Describe the context with data and pain points. Why is solving this problem essential?
- 3. Game Plan:** Your Solution: How do you get there? What's your approach or process?
- 4. Technology (optional):** You don't need to code it! But a mockup or simple sketch of functionalities increases your chances.
- 5. Vision of Success:** How will the user experience change? How will you measure success (KPIs, outcomes)?

### Evaluation Criteria

- Creativity – originality and novelty of the idea
- Feasibility – practicality and potential for implementation

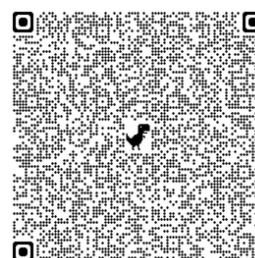
### Hackathon Support

🗨 Microsoft Teams link:

Join the meeting now:

Meeting ID: 388 725 417 436 34

Passcode: JM9HW3tP



# FOCUS BAND

## Innovative Solution for Efficiency Maximization

Students do not know their actual peak focus periods, which leads to ineffective studying and wasted time.

**70-80%** of students report difficulty maintaining concentration while studying

Many students study **"intuitively,"** without knowing when their brain actually functions at its best

There is a lack of simple tools that **analyze focus levels** in real time and suggest the optimal moments for studying.

"Are you a morning **lark** or a night **owl**?"



Stop guessing!  
Start knowing!



FOCUS-BAND analyzes your brainwaves to reveal your true peak performance hours so you can study when your mind is sharpest, not when your schedule says so.



### IMPACT

- Students will study during their most productive hours
- Greater awareness of personal rhythms



FOCUS-BAND – an intelligent EEG headband that measures concentration levels

Using **miniature EEG sensors**, it analyzes brainwaves (mainly alpha, beta, and theta) to determine the current level of focus.

### STEPS:

1. **Data Collection:** The headband analyzes brainwaves in real time & records moments of high and low concentration
2. **Personalization:** The algorithm learns the daily rhythm of the user & builds an individual profile of peak efficiency moments
3. **Recommendations:** The app suggests optimal study hours, session length & recovery tips for when concentration drops

### OUR TECHNOLOGY

- **EEG sensors** — low-profile electrodes in the headband that detect brainwaves
- Signal-processing algorithm — filters noise and identifies focus levels
  - **Mobile app**
  - **Bluetooth**
- Machine Learning for personalizing the study plan