Report: DAAD Project for 2023
Digital Adaptation of Geophysics Lecture

Team
M. Reza Ershadi
Anne Hermann (HIWI)
Paula Toetz (HIWI)
Supervised by: Prof. Dr. Reinhard Drews

Project Focus
Our team focuses on developing flipped classroom templates, with Introduction to Geophysics as a pilot project. The project involves creating unified digital teaching resources, such as templates for PowerPoint/Latex slides, figures, and accompanying texts. We prioritize reproducibility and ease of modification for future adaptations.

Our progress is systematically stored on a pCloud server (only for team members) and archived on GitHub (publicly accessible with the following link: https://github.com/RezaErshadi/CIVIS)

You can also find an example of what we are targeting to achieve in this video:
https://www.youtube.com/watch?v=Jd-hm4U7hjI

Tasks
Content: Determining the core concepts to be featured in the video lecture.
Literature Review: Identifying real-world applications of the lecture topic.
Visuals: Selection of essential figures and equations.
Task Distribution: Allocation of figure creation responsibilities.
Digitization: Coding slides and figures for reproducibility and flexibility (using Latex, Tikz, and Python).

Progress
Content Framework: Established a clear outline of topics, figures, and equations.
Real-World Context: Extracted classical and modern applications from reliable literature sources.
Visuals: Identified relevant equations and figures from primary sources (books and papers). Initial figures generated using Tikz and Python.
Organization: Established a Sphynx platform for streamlined progress management.
Archiving: PCloud storage for team use, with the latest versions archived on GitHub with public access.

Current Status
Status: Content, literature review, and initial figures completed.

Next Steps
Finalize template designs for slides, figures, and text.
Generate remaining figures according to the template.
Assemble presentation slides.

Meetings
Oct 2023
(Drews & Ershadi): Project initiation – defined scope and content structure.
(Ershadi, Hermann, Toetz): Project introduction to students, task explanation.
Nov 2023
(Ershadi, Hermann, Toetz): Literature review and task allocation.
Dec 2023
(Drews & Ershadi): Lecture content refinement.
(Ershadi, Hermann, Toetz): Discussing the current figures and necessary changes.

Sincerely,
Reza Ershadi
26.02.2024