**Report: DAAD Project for 2023**

Digital Adaptation of Geophysics Lecture

**Team**

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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**