

Project Seminar Summer Semester 2025

Print the Future – Create Your Own FFF 3D Printing Experiment

Background

As part of the TUM.Additive IDEAL (InterDisciplinary Education Additive Manufacturing Lab), a Virtual Reality Lab for Additive Manufacturing, is developed so that Students from all disciplines can explore various additive manufacturing processes in a safe virtual environment and gain some first virtual Hands-on Experiences.

Following this, we aim to allow students to create small experiments and projects in the real world using conventional 3D printers.

Aim

The main aim of the project seminar is to design, carry out, and evaluate an experiment with a Fused Filament Fabrication (FFF) 3D printer for students so that it can be integrated into the VR lab as a “real hands-on experience” in the upcoming winter semester.

Process

Students can design the experiment on a 3D printer provided by TUM.Additive and will be supported and mentored by members of the IDEAL project during the semester.

As proof of performance, each group will write a final report and present the results in a 15-minute presentation.

Application

Please send the following documents to Stephan Bantscheff (stephan.bantscheff@tum.de) by **17.02.2025**:

- CV
- Current transcript of records
- Brief explanation of why the project is of interest to you (max. 100 words)

All applications will be reviewed, and places will then be offered. These must be bindingly confirmed by the students by **28.02.2025**.