

Digital teaching elements in the lab course on materials physics

Digital elements in teaching and learning offer great advantages for both students and teachers. From the provision of learning materials to the close support of students in the learning process, many processes can be much more efficient when designed digitally compared to what would be possible in a purely analogue form. In the laboratory course within the specialisation module "Materials Physics" in the Physics Master programme, our goal is to exploit this potential as much as possible. This includes, for example, an online comprehension check before the experiments, the digital submission of reports, detailed feedback from supervisors on the reports, specific feedback from students and much more. Learnweb serves as the central organisation and learning platform throughout the entire lab course.

General
Alles einklappen

The MINI SYMPOSIUM will take place in room 619, starting at 1 PM.



Description:

This Learnweb course will be the central communication tool for the "Laboratory course in Materials Physics". This course is an essential part of the specialization module "Materials Physics" in the Physics Master program. In order to take this course students need to enroll for it both in QISPOS and in Learnweb.

The course will start with an **introductory event on April 6th 2022 at 13:00** in room **HS2 of IG1** (Wilhelm-Klemm-Strasse 10). For students wishing to participate in the course it is **mandatory to attend** this introductory event.

On the following Wednesday afternoons, students will perform 10 different experiments in groups of two guided by a tutor. Following this time in the laboratory, each group will write a report about their findings and submit it within two weeks. The tutor will give feedback within one week. Afterward, the students have one more week for revising their report according to the tutor's feedback.

Go to:

1. Groups/Schedule
2. Experiment 1
3. Experiment 2
4. Experiment 3
5. Experiment 4
6. Experiment 5
7. Experiment 6
8. Experiment 7
9. Experiment 8
10. Experiment 9
11. Experiment 10
12. Guide for laboratory reports
13. Python resources

In order to further improve the experience for both students and teachers, we are looking to recruit a

Student assistant (5-10h/week).

Central tasks will be the identification of possibilities for improvement in the current digital teaching, their implementation in cooperation with the tutors and the subsequent evaluation.

We expect...

- interest in designing learning opportunities with modern, digital tools
- personal initiative and high motivation

Your advantages

- Insight into quality management of university teaching
- Experience in designing teaching with digital elements
- Flexible arrangement of working hours

Have we attracted your interest?

Then contact Prof. Salinga (martin.salinga@uni-muenster.de).