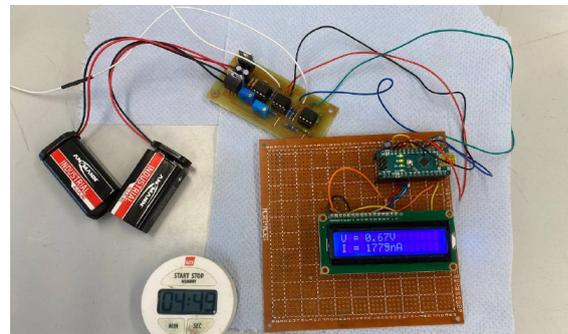


# BIOMEDICAL ENGINEERING SUMMER SCHOOL

Chotbaeva Adina, KSTU named after I.Razzakov

I got the chance to join the in-depth lane "C - Biomedical Signal and Image Acquisition, Processing and Analysis" course. During August 28th and September 15th, 2023, I dived into the captivating universe of biomedical signal and image handling, gaining beneficial knowledge and skills that I'll use in my future academic and professional pursuits.

In Week 1, we examined amperometric biosensors and related electronics. It was taught by two respected Turkish professors, and the lessons were demanding and speedy. It compelled us to switch quickly into a focused mindset. Our project involved soldering a PCB for a glucose biosensor, connecting an Arduino Nano, and testing various solutions.



Although the coursework was demanding, we still had some enjoyable activities after school. We had a welcome barbecue at KlingKlang, explored Oldenburg city during the City Festival, and tasted some delicious local food.

During the second week, we learned about instrumentation, acquisition, and signal processing for biosignals. Our team's task included managing a stepper motor with an Arduino, which we successfully accomplished thanks to our Turkish professor's explanations. During the week, we enjoyed activities such as playing volleyball, going to South Beach, attending a free open-air concert, exploring Cocoon Karaoke Club, and visiting nearby cities.



In Week 3, we focused on embedded systems, my favorite week as it was dedicated to coding, which is what I am passionate about. The course was taught by a professor from Mexico who excelled at providing clear explanations and support to students facing difficulty.



Finally, we enjoyed bowling, visiting the Karaoke Club, a farewell party at KlingKlang, and final evaluations with an award ceremony where we presented our team projects.

I am extremely thankful for the chance to attend this summer course, made available through a scholarship from Jade University. The assistance and materials given for a thriving study experience and stay in Wilhelmshaven were outstanding. A special thanks goes to Iris Wilters and the student assistants who were consistently helpful and supportive throughout our journey.



This intensive course was a transformative and enriching experience that not only expanded my knowledge but also allowed me to form lasting connections and friendships.

Even though we were busy with our projects, we maintained a positive attitude and a good sense of humor. We shared common jokes and felt comfortable with each other, which made the experience even more enjoyable. I sincerely hope to reunite with all these wonderful people in the future.

I highly recommend this summer school to motivated students who want to experience an international environment and immerse themselves in knowledge from excellent professors. You won't regret it!