

Report of Train the Trainer Program 2015 – GJU

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First, I would really like to thank the Hochschule Magdeburg-Stendal, the German Academic Exchange Service (DAAD), and German Jordanian University for giving me this great opportunity to participate in the Train the Trainer program 2015. It was of a great pleasure for me to visit Germany and to have closer insight on the educational and research system in Germany, not to forget the rooted and rich culture as well. I really appreciate the committee of Train the Trainer program 2015 for their help and cooperation.

My visit to Germany during the summer under the umbrella of train the trainer program involved two different aspects. First, I have been in ISAS institute in Dortmund, where I have been involved in research experience and introduced to different scientific laboratories, as well as visiting Technical University in Dortmund. On the other hand, my visit included HTWK- Applied Science University in Leipzig. In Leipzig, I have been hosted by Prof. Schenk where he gave me a valuable tour over all the educational laboratories and educational system in the institute. Below I can describe the details of my visit.

1. Leibniz Institut Für Analytische Wissenschaften – ISAS – e.V. in Dortmund:

Institute for analytical science, ISAS-e.v. in Dortmund

- **Safety training:**

This training was the most important part for any work in the laboratory either on the level of scientific research or educational laboratory. The aim of this training was to deal with apparatus inside the laboratory and using the suitable clothes for the laboratory such as Lab Coats, using eye protection (goggles) and hand protection (gloves), handling the apparatus and materials carefully according to lab standards.

- **Lectures:**

I have attended a valuable lecture about the Nuclear Magnetic Resonance (NMR) and its application in material science, medical science, and chemical science. Dr. Jörg Lambert one of the NMR experts at ISAS institute introduced the lecture.

- **Instruments Training:**

As part of my visit to ISAS, I have been trained on several types of instruments for research purpose as well as educational laboratories. These instruments include

- a- Infrared - (IR)
- b- Nuclear Magnetic Resonance – (NMR)
- c- X-Ray Photon Spectroscopy – (XPS)

- **Other Activities:**

The visit has also included an introduction tour to Technical University Dortmund (TU-Dortmund) and the new building of ISAS in TU-Dortmund campus, as well as the DELTA side (Dortmunder Synchrotron Radiation Facility), the chemical, bio-chemical and mass spectrometry laboratories. Moreover, I have been involved in scientific data analysis and preparing scientific publication. Additionally, I have participated in preparing of scientific workshop in the framework of the collaboration project between ISAS and GJU that is expected to be held in October 2015. By the end of my visit to ISAS, we have discussed the future collaboration between ISAS, TU-Dortmund, and GJU in mutual research and students' exchange.

2. Leipzig University of Applied Science (HTWK-Leipzig):

As a second part of my visit to HTWK-Leipzig, I have been hosted by Prof. Dr.-Ing Joachim Schenk; a professor of Environmental Engineering at HTWK. During my visit I have been in a useful tour through the HTWK campus in Leipzig. We have visited all the environmental

laboratories and most of the mechanical Laboratories. In addition, we took a look over the style of the class rooms and the educational system, such as how the lectures can be delivered to the students. By the end of my visit, I have been in a laboratory tour to the biomass energy production at deutsches biomasseforschungszentrum gemeinnützige gmbh (DBFZ) with one of our PHD students in Leipzig. There, I have seen the equipment and instruments that can be used for energy production from Biomass.

3. Cultural Activities:

The cultural experience there is one of the best experiences I have ever had, I have travelled to different countries before, but nonetheless, visiting Germany has added a much-needed value to my life. I could say that I became more independent as a person. In addition to going on trips to different cities within Germany, that gave me an extra experience in using of intra-city train transportation.

Working also with a large group of people, helped develop my communication and team-working skills yet further. Everyone at the institutes, no exception present, was very nice and really helpful by all means. This encouraged me even more to pursue a career in research and education.



Figure 1: With ISAS group in Dortmund and Student from GJU.



Figure 2: side of the work at IR-LAB.



Figure 3: Side of the work at XPS-LAB.



Figure 4: Side of my visit to HTWK-Leipzig with Prof. Dr.-Ing. Joachim Schenk.