
UKM NUCLEAR SCIENCE MOBILITY PROGRAM TO THAILAND

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The Nuclear Science Mobility Program to Thailand was held on 28 April - 2 May 2024, focusing on two main locations: Thailand Institute of Nuclear Technology (TINT) and Chulalongkorn University. This program was organized by the third-year students of the Nuclear Science Programme from Universiti Kebangsaan Malaysia (UKM) of the cohort 2021 / 2022. The aim of this program was to expose the students on the nuclear power technology and syllabus in Thailand. A total of 13 students accompanied by their lecturer, Dr. Idzat Mohd Idris have joined this program.



The first day of the program starts with a visit to one of the Thailand Institute of Nuclear Technology (TINT) branches which is located in Nakhon Nayok. Three different technical visits were conducted involving Calibration and Personal Dosimetry Laboratory, Nuclear Technology Service Center, Gemstone Irradiation Facility and Radioactive Waste Management Center. The students were given a brief explanation and were have the opportunity to take a closer look and to bring forth any questions towards the personnel. During their visit to the Radioactive Waste Management Center, the students were informed that they were the first group to have the opportunity to tour the Tool Kit Facility.



Upon arrival at TINT.



Briefing on the Gemstone Irradiation Process.



Visit to the Radioactive Waste Storage Building.

The second day mobility program continued by visiting Chulalongkorn University which was located around 30 minutes away from the accommodation and upon arrival, the participants were greeted warmly by one of the staff. Then, a brief introduction of the Department of Nuclear Engineering was given by the Head of department along with all of their lecturers. In return, Dr. Idzat and Mr. Aaron Ewe Teik Soon gave a brief introduction on Nuclear Science Program and Kelab Sains Nuklear (KESAN) UKM respectively.



A brief introduction from both Chulalongkorn University and UKM representatives.

After that a few lab tours were conducted involving Measurement Lab, Crystal Growth Lab, Materials Lab, Alpha Spectroscopy Lab, NORM Lab, and Instrument Lab. One of

the highlights for the lab tour session was how the department grew their own NaI crystal as one of the components for their NaI (Tl) Sodium Iodide Scintillation Detectors and had their own facility. Throughout the whole lab tours, each session was handled by a lecturer respectively and the insightful day ended with a session of conclusion and closing. There was also a short session, meeting some of the Ph.D. students where they gave an explanation of their project which was related to the production of rare sugars using innovative plasma technology.



A snippet of the lab tours around the Nuclear Engineering Department of Chulalongkorn University.



A token of appreciation from of Chulalongkorn University.



The participants with the lecturers and students Nuclear Engineering Department.

For the next remaining days in Thailand, the participants went on a trip around Bangkok to enjoy what Bangkok has to offer. One of the visited tourist attractions was Wat Arun where the participants had the opportunity to wear the traditional Thai dress called Chut Thai and went on more sightseeing tours including the Science Centre for Education.



A day of touring around Wat Arun and several other places.

This mobility program was one of the most informative and memorable program that the students have ever joined whilst under the Nuclear Science Program especially on the exposure regarding the nuclear sector and how it is done or handled in a different country. Other than that, all members of the secretariat have successfully gained experience in organizing international mobility program. In conclusion, UKM Nuclear Science students are now able to convey the new knowledge to the community or fellow STEM students in a more effective way.