

'Science kit, K-pop dance class, AI experience... ' GIST, various social contribution activities at home and abroad

- On the 19th (Saturday), the Kazakhstan Almaty Korean Language School will hold specialized science and engineering social contribution activities such as online science classes



▲ Students of the Kazakhstan Almaty Korean Language School who participated in the GIST Overseas Social Contribution Program are taking commemorative photos while wearing hanboks.

GIST (Gwangju Institute of Science and Technology, President Kiseon Kim) is carrying out various social contribution activities at home and abroad to spread a sound science culture and practice the spirit of sharing knowledge and learning.

This year's overseas social contribution program, which was held for two days on November 5th (Sat) and 19th (Sat), was to contribute to fostering talent through support for science and cultural activities of Koreans living in Kazakhstan and local educational environment improvement projects. Online overseas social contribution activities were conducted for students of the 'Kazakhstan Almaty Korean Language School (Saturday School)'.

The Korean Language School in Almaty, Kazakhstan was established on April 6, 2012, to restore the spirit of love for the country, Korean language, writing, and culture of our ancestors, and to nurture world-class talents. For about 160 Goryeoin students between the ages of 9 and 15, the Korean language, Korean culture, Taekwondo, and hands-on events are conducted for 4 hours every Saturday.

The science class, in which students Gwan-ryul Shin and Jae-woo Jeong from the Department of Basic Education at GIST participated as mentors, made 'ooho', an eco-friendly droplet (water bottle) made by putting water in a thin film without using containers such as plastic bottles. Basic classes and related kit production (ooho kit, rechargeable electric vehicle kit) were conducted online with the theme of 'Structure of Electric Vehicle and Battery Principle' online through Zoom.

Zarina Altybay (School of Life Sciences), a GIST student from Kazakhstan, acted as a Russian interpreter, and the program went smoothly.

In addition, students from the Gist dance club "Macmoo" produced and delivered "dance lesson videos" to help local students easily follow and learn K-pop songs and dances, and also experienced wearing hanbok to promote Korean culture and making traditional kits (traditional tops, traditional knot bracelet, and traditional moods).



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The students of the Kazakhstan Almaty Korean Language School shared their comments saying that the science experiment kit was interesting and that it was fun to learn how to make a traditional kit and learn K-pop dance while wearing hanbok.

Local teachers also expressed their gratitude, saying that GIST sent snacks, school supplies, traditional kits and science experiment items, and hanbok to Kazakhstan in advance, so that they could have a valuable experience online.

GIST has also carried out various social contribution activities in Korea this year centered on the GIST social contribution group <Pium>. In particular, in the second half of this year when the COVID-19 quarantine standards were eased, knowledge sharing activities were actively carried out through face-to-face events such as an experiential science and engineering career program.

In the second half of this year, a total of 5 science camps were held as face-to-face events, including 'Visiting Science Camp', 'Science Camp with GIST', and 'AI Dream Tree Camp'.

'Visiting Science Camp' is an educational donation program that provides interesting and diverse science experience programs and career mentoring in which student mentors belonging to the social contribution group <Pium> visit middle schools located in underserved areas such as remote islands.

This year, it was held at Cheongsan Middle School in Wando, Jeollanam-do, Geumsan Middle School in Goheung, and Mangyeong Girls' Middle School in Gimje, Jeollabuk-do.



▲ At the 'Visiting Science Camp' at Geumsan Middle School in Goheung, students drive their self-made solar car with sunlight.

The 'Science Camp with GIST' is a program designed to help middle and high school students explore their careers by inviting them to the GIST campus to experience creative inquiry activities at the educational and research sites at GIST.

Last August, it received favorable reviews from participating students and teachers for conducting a camp tailored to the level of the students and organizing various programs for about 50 middle and high school students in the Yeongdo and Honam regions.

'AI Dream Camp' is a program that provides AI education to youth in underprivileged areas using GIST's human and material resources. It was planned with the goal of providing practical experience activities for artificial intelligence, which is GIST's main field and is leading the recent scientific trend.

This year's 'AI Dream Camp' invited 28 students from Hampyeong Girls' Middle School on October 17th and held a ▲ campus tour ▲ lab tour (lab tour and experience of research results) ▲ AI KIT (artificial intelligence speaker) production and coding classes.

In particular, the Lab Tour highlighted recent accomplishments at the International Game-AI Hackathon competition ▲ Cognition and Intelligence Lab (Professor Kyung-Joong Kim)'s 'Imo-Tris (emotion-based Tetris game combined with facial expression recognition artificial intelligence technology)' project and ▲ the Audio Intelligence Lab (Professor Hong Kook Kim) conducted an experience of 'AI-based personal spatial sound technology', and it was conducted as a time for students to directly experience the latest research achievements.



▲ Group photo of Hampyeong Girls' Middle School students who participated in the 'AI Dream Tree Camp'

President Kiseon Kim said, "GIST is fulfilling its social responsibility as a science and technology specialized university by carrying out social contribution activities specialized in science and engineering not only in Korea but also abroad. We will continue to create social contribution programs that make use of GIST's strengths and contribute to fostering future science specialists."



▲ Group photo of 'Visiting Science Camp' at Gimje Mangyeong Girls' Middle School