

FY2021 Inter-University Exchange Project, University of Yamanashi

Support for promoting the establishment of Asian Higher Education Community

【Name of project】(Adopted year: FY2021, (Type B①))

A³¹: Real Problem Solving Driven Artificial Intelligence Education Program
(A³¹ is the abbreviation of Asia Applied Artificial Intelligence)

【Summary of Inter-University Exchange Projects】

AI is an important driving force for a new round of scientific and technological revolution and industrial change. It is considered to be the next "super tuyeer" of scientific and technological innovation. Asia, especially in China, Japan, South Korea, Malaysia, is very active in this new round of scientific and technological revolution and is expected to become a pioneer and leader in the AI industry.

As the AI industry has gradually become the focus of competitive layout around the world, the number of relevant enterprises is growing rapidly, and the demand for AI talents is increasing. At present, the number and quality of talents in this field can not meet the needs of industrial development, and there is a lack of effective training mode. Cultivating high-level talents in the AI field with a global perspective, cutting-edge knowledge and problem-solving ability will have a significant and far-reaching impact on economic development, social progress and international political and economic pattern.

This project is set to develop Asian intellectuals and professionals who are equipped with a global perspective, world class knowledge on AI, and are able to solve real problems.

【Summary of Exchange program】

Under the CAMPUS Asia + framework, the four universities, University of Yamanashi(UY), Hangzhou Dianzi University(HDU), Pukyong National University(PKNU) and University of Malaysia Perlis(UniMap), will share their respective advantages, put together resources, and work coordinately to run dual degree programs, study abroad programs, short term culture experiences, workshops, internship, shared online courses and summer schools. Through this project, it is expected to jointly develop 5 online courses (4 in master's level and 1 in doctoral level), enroll no less than 140 students for exchange each year and jointly educate at least 70 graduates with dual degrees within 5 years.

【Global Human Resource on the project】

The project aims to develop human resources who possess the following qualities and abilities from the aspects of internationality, knowledge, and application skills.

1. Internationality

- 1) Cross-cultural understanding and communication skills to work with people of different languages and cultural backgrounds
- 2) Global perspective that respects diverse values and understands the needs and frameworks of global community.

2. Knowledge

- 3) Solid foundation in mathematics and computer
- 4) Cutting-edge AI technology and related knowledge

3. Application skills

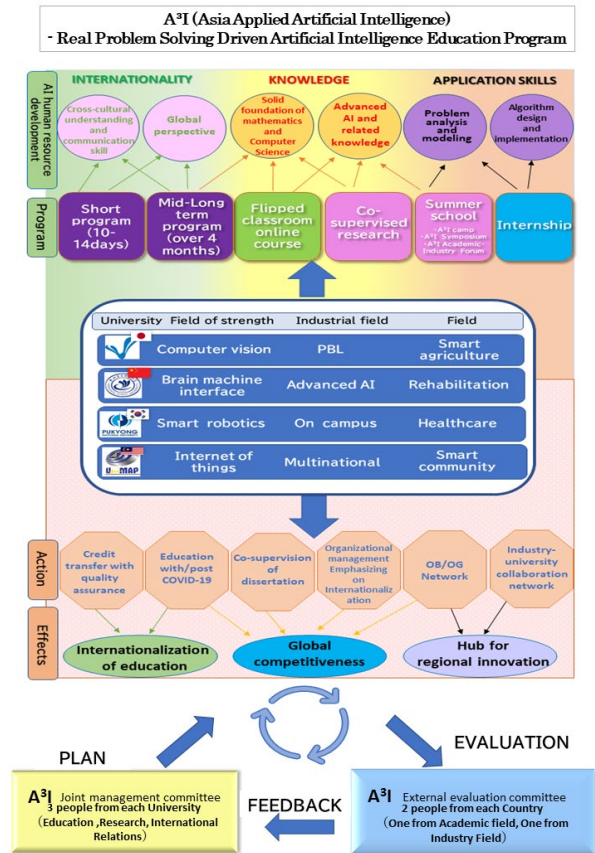
- 5) Ability to formulate problems across various disciplines
- 6) Ability to design and implement efficient algorithms for problems.

【Feature on the project】

The objective and main feature of this program is to foster AI professionals who are oriented toward solving real-world problems by leveraging the strengths of each university and the industry-academia network, with cutting-edge AI research and education as the two wheels.

【Exchange number】

		2021	2022	2023	2024	2025
Out bound	Students studying abroad	0	20	20	25	25
	Students taking online international education and exchange programs in their home countries	15	10	10	10	10
	Students fulfilling both of the above requirements	0	0	5	5	10
In bound	Students studying abroad	0	24	22	25	27
	Students taking online international education and exchange programs in their home countries	45	30	30	30	30
	Students fulfilling both of the above requirements	0	15	0	0	0



1. FY2021 Progress

【Name of project】(Adopted year: FY2021)

A3I: Real Problem Solving Driven Artificial Intelligence Education Program

(A3I is the abbreviation of Asia Applied Artificial Intelligence)

■ Exchange Programs

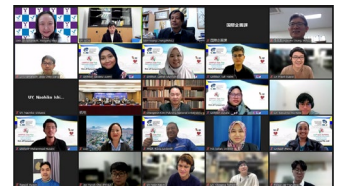
In FY2021, the first year of this project, the following groundwork was laid for the start of student exchange in the next fiscal year.

- Established of the “A3I Joint Management Committee” consisting of representatives from four universities of each country.
- Created a timetable for long-term exchange students who will obtain dual degrees
- Reviewed the timing and content of the short program and summer program based on the academic schedule of each university
- Held online Kick-off symposium "AI = The Future of Asia" with four universities
- Established remote lecture system and electronic certificate system for the quality assurance
- Created program website and pamphlet to make information available to the public



< Flyer >

	2021	
	Plan	Results
Outbound	15	11
Inbound	45	22



< Kick-off symposium >

Student-Mobility

○ Outbound/Inbound

The workshop held prior to the kick-off symposium was attended by 11 Japanese students and 22 students from overseas. Students divided into mixed group of four countries and had group discussions. At the end of symposium, they presented their achievements.

■ Forming the University Network with Quality Assurance

- Established the "A3I Joint Management Committee" consisting of program directors from the four universities to discuss the timing and content of the short program, methods of credit transfer, content of the symposium held in March, etc.
- Shared and confirmed syllabuses of each university, and create a credit transfer plan.
- Reviewed syllabus contents and developed an electronic transcript that visualizes achievement goals and evaluation methods.

■ Promotion of Student-Mobility Environment

Staff with international experience were assigned to the program, and a system was established to coordinate schedules, academic affairs procedures, credit transfer, grade management, and study support for exchange.

■ Internationalization of the university, Information disclosure and Publication of outcome

- Staff with international experience are assigned to the International Planning Division, the Academic Affairs Group of the Faculty of Engineering, and the Department of Computer Science.
- Establish learning environment for online program, short program, and summer program and electronic certificate system
- Created a program website and pamphlet to make information widely available both inside and outside the university

■ Good Practices

A kick-off symposium was held online in collaboration with four universities, inviting internationally active top runners in the AI industry as keynote speakers from each country on March 17, 2022. The symposium was attended by approximately 140 participants from each country and provided an opportunity to learn about cutting-edge examples of AI in Asia and future trends for students in AI era in Asia. The student workshop held prior to the symposium also provided an opportunity for all students from the four countries to interact and share their knowledge of AI.