

Advanced Global PBL on IoT at HUST
HUST: Hanoi University of Science and Technology, Vietnam

AgPBL (Advanced Global PBL) on IoT was held at HUST (Hanoi University of Science and Technology), Vietnam, from October 30 to November 7 in 2018, hosted by School of Information and Communication Technology in HUST. The main purpose of this PBL was to create ideas which solve problems on IoT research. Firstly, a research survey paper was delivered in each group formed by both SIT and HUST students. The participants investigated the paper and found difficulties in existing researches. Then, they brainstormed the solutions to overcome the difficulties. Based on the solutions, they proposed systems and developed them. Finally, they presented their achievements and demonstrated the developed systems to show the feasibilities.

21 students from SIT and 24 students from HUST participated in the AgPBL. 3 faculty members from SIT and 7 faculty members and staff members from HUST supervised the students and organized the AgPBL. The participants were divided into 7 groups. Every group proposed a unique and intriguing idea, and developed a prototype system.

Besides the AgPBL activities, a research workshop was held. Mainly bachelor students presented their ongoing researches and discussed the achievements with the audience. It was a good experience for them since this was the first time that most of them had talked about their research activities in English in a global environment.

One invited talk session was also prepared. Dr. Than Quang Khoat in HUST gave a presentation on “Bayesian learning from big and streaming data”. In addition, the participants visited his laboratory, Data Science Laboratory (DSLAb), and observed their research activities.

Furthermore, the participants visited “Mai Chau – Hoa Binh” which is a traditional Vietnamese village as a cultural exchange.

As a whole, this AgPBL was successful and the participants achieved their goals as well as brushing up their English communication skills.

Schedule at a glance

Date	Morning Session (9:00 - 12:00)	Afternoon Session (13:00 - 17:00)
Oct. 30 Tue.	Depart from HND Arrive at Hanoi	HUST Campus Tour
Oct. 31 Wed.	Opening Ceremony and Photo Session Ice-breaking	Guidance of AgPBL AgPBL on IoT (Theme discussion with a survey paper)
Nov. 1 Thu.	Invited Talk by Dr. Than Quang Khoat AgPBL on IoT	AgPBL on IoT
Nov. 2 Fri.	Research Workshop 1 (10 min for presentation and 5 min for Q&A)	Research Workshop 2 (10 min for presentation and 5 min for Q&A)
Nov. 3 Sat.	Cultural Exchange Visit Mai Chau - Hoa Binh	
Nov. 4 Sun.	Day Off (Free activity)	
Nov. 5 Mon.	Visit Data Science Laboratory (DSLAb) AgPBL on IoT	AgPBL on IoT
Nov. 6 Tue.	AgPBL on IoT	AgPBL Presentation Session Farewell Party
Nov. 7 Wed.	Closing Ceremony Photo Session	Depart from Hanoi Arrive at HND



Opening ceremony and photo session



Ice-breaking: Vietnamese foods and traditional game



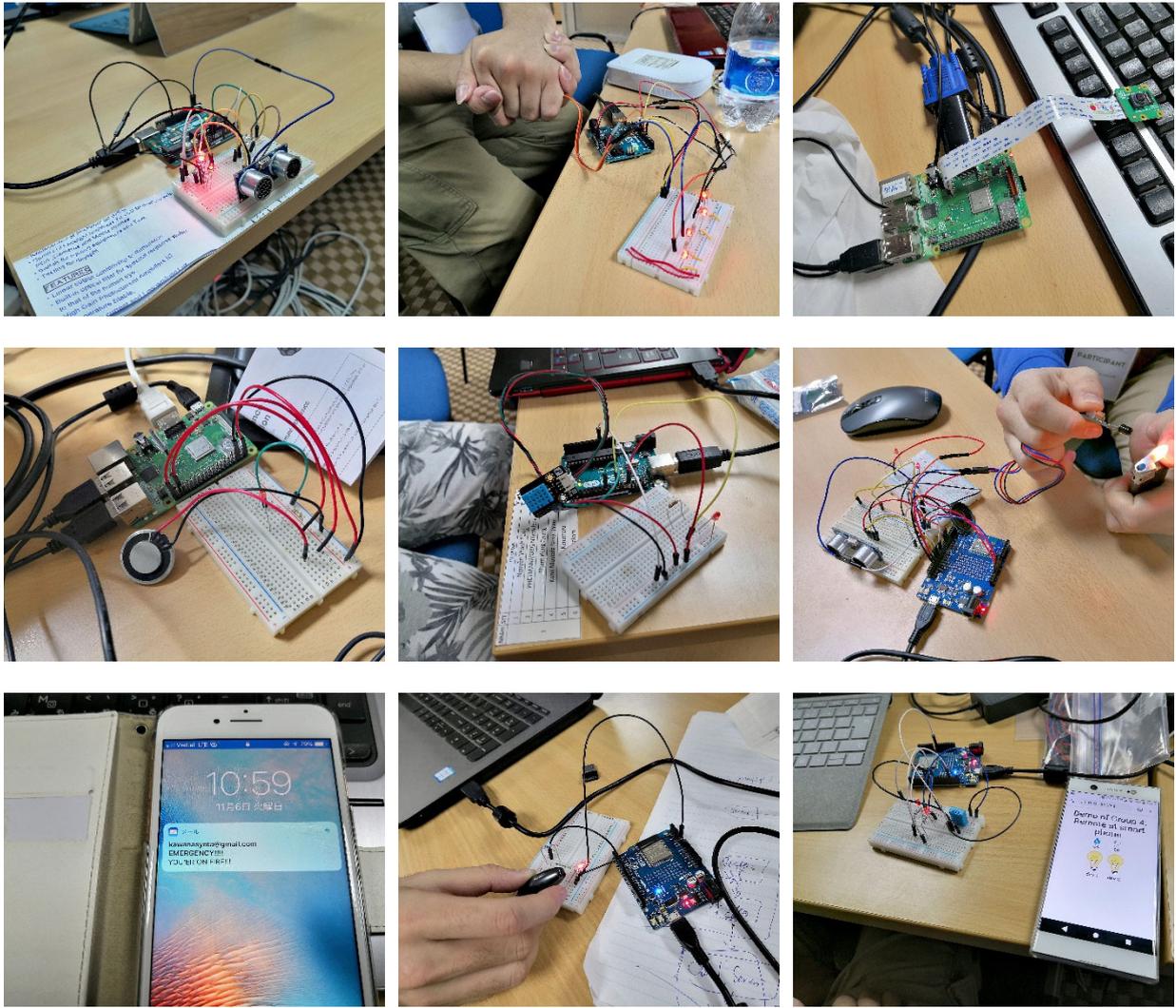
AgPBL activity: Clarification of the issues on IoT research based on a research survey paper



Cultural Exchange: Mai Chau - Hoa Binh which is a traditional Vietnamese village



Observation of Data Science Laboratory (DSLAb)



System developments using IoT technologies proposed by 7 groups



Final presentation: Giving presentations and demonstrations



Farewell party with sweets and fruits



Giving the certificate of completion to participants at the closing ceremony



Giving presentation and proposal awards at the closing ceremony



Final photo session at the closing ceremony

Summary of AgPBL

Name of PBL	Advanced Global PBL on IoT	
Date	From October 30 to November 7, 2018	
Venue	School of Information and Communication Technology, HUST, Vietnam	
PBL	Active learning in 7 groups: Research survey, problem clarification, theme decision, proposition, system development, evaluation, presentation and discussion	
Workshop	Research presentations and discussions by mainly bachelor students	
Invited talk	<i>Bayesian learning from big and streaming data</i> by Dr. Than Quang Khoat	
Laboratory observation	Data Science Laboratory (DSLab)	
Cultural exchange	Tour for Mai Chau - Hoa Binh	
Participants from SIT	21 students from SIT (from B4 to D1) mainly belonging to Kamioka Lab.	21
	3 Faculty members - Prof. Eiji Kamioka - Assist. Professot Phan Xuan Tan - Adjunct Associate Professor Khaironi Yatim Sharif	3
Participants from HUST	24 students from Discipline of Software Engineering and Discipline of Data Communication and Computer Network (B4, B5, BA, M1, M2, D1)	24
	Ministry of Education and Training - Assoc. Prof. Huynh Quyet Thang	7
	5 SoICT faculty members - Assoc. Prof. Ngo Hong Son (Dean) - Assoc. Prof. Huynh Thi Thanh Binh (Vice Dean) - Dr. Nguyen Thi Thanh Tu (Lecturer) - Dr. Than Quang Khoat (Lecturer) - Dr. Nguyen Duc Toan (Lecturer)	
	3 Network Information Center members - Mr. Le Huy Cuong (Director)	
The total number of participants		55