Announcement and Tentative Program

> **APEC-Tsukuba International Conference XIV**
> **Research Meeting of the**
> **Informatics and Data Science Education Reform for Digital, Inclusive and Sustainable Society (InMside II) Project** (APEC HRD 05 2019)
> Feb. 11-12, 2019, at Tokyo Campus of the University of Tsukuba, Japan
> (3 Chome-29-1 Otsuka, Bunkyō, Tokyo: 3 min walk from Myogadani Station)

Building on the InMside-project (HRD 01 2018) for upper secondary schools, InMside II-project (HRD 05 2019) trains middle school curriculum developers to include Artificial Intelligence (AI) and Big Data into the APEC economies' curricula for building Inclusive, Sustainable and Digital society under Integration 4.0 against 4th Industrial Revolution. The Informatics and Data Science Education Reform is driven by computational and statistical thinking. The objective is to build the capacity of curriculum developers to produce recommendations for their curricula reform, teacher training, with enlargement of the network to support the APEC Education Strategy for 2030. InMside II provides Research Meeting at Tokyo, Japan in February, 2020, InMside II Seminar for training curriculum developers in Malaysia in August, 2020 and Synthesis Meeting in Thailand in November, 2020. The outcomes are the recommendations of curriculum on computational and statistical thinking with teacher training models, and the enlarged network of curriculum developers. Seminar in Malaysia will be supported by APEC grant, Malaysian grants or self-funds. Research Meeting and Synthesis Meeting will be supported by Japan, Thailand and self-funds. Specialists for Seminar and Synthesis Meeting will be recommended by every economy.

Objective of Research Meeting in February 11-12

Research the theoretical frameworks for curriculum developers on the issues and teacher training modules for preparing the InMside II Seminar in Malaysia

Role of Specialists

Present the theoretical framework and newest research issues for curriculum reform which must include:

> Computational and statistical thinking for middle (junior high) school level
>
> Current teacher training programs for programing or computational thinking
>
> Gender issues

STEM and STEAM Education on the cross curriculum is possible to be considered under these three issues.

Role of Participants

Poster presentations for teacher training programs on various reform issues such as gender issues and researches for Industry 4.0.

Further Contacts for Tokyo Research Meeting

> Program: Masami Isoda, Director of CRICED, University of Tsukuba
>
> Project Overseer of InMside II, isoda@criced.tsukuba.ac.jp
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> With collaboration of Sofian TajulArus, MOE, Malaysia and Maitree Inprasitha, Khon Kaen University (co-project overseers of InMisde II project) and Roverto Araya, University of Chile (InMside I project)
>
> Logistics: Emi Takenaka, Officer, Officer of Global Initiatives, University of Tsukuba, criced@un.tsukuba.ac.jp
>
> Further Communication Amongst Governments: Taijiro Tsuruoka, MEST, Japan (co-project overseers of InMisde II project), t-tsuru@mext.go.jp

Tuesday, 11 February 2020 (Tentative)

0930–1000 hrs	Registration

1000–1200 hrs

I. Opening Ceremony

Ministry of Education, Culture, Sports, Science and Engineering, Japan

Mash Manjawani Binti Mat, Principal Assistant Director, Ministry of Education, Malaysia

Luksmon Smansin, Educator, Senior Professional Level, Ministry of Education, Thailand

Official Photo Session

II. Opening Keynotes

The Goals of InMside II Project based on

Masami Isoda (University of Tsukuba), Sofian TajulArus (Ministry of Education, Malaysia), Maitree Inprasitha (Khon Kaen University)

Computational Thinking and Humanity for Industy 4.0

Bundit Thipakorn, Senior Vice President for Academic Affairs

King Mongkut's University of Technology Thonburi, Former Secretary General, Ministry of Education, Thailand

Japanese Curriculum Reform for Society 5.0 at Lower Secondary School Level

Koushi Ueno (National Institute of Educational Policy Research, Japan)

Malaysia Curriculum Reform for Industry 4.0 at Lower Secondary School Level

Sofian TajulArus (Ministry of Education, Malaysia)

1200–1300 hrs	Lunch Break

1300–1400 hrs

III. Poster presentations for training programs on various reform issues and researches for Industry 4.0

Wahudi (Indonesia), Ahamad Heikhal (Malaysia), Suhaidah TahiArusr & Mariam Othman (Malaysia), Sumardyono (Indonesia), Indrawati M. Pd.(Indonesia), Marcela Santillan (Mexico)

1400-1530hrs

IV. Explanation of the Draft of for Computational Thinking and Statistical Thinking and Discussions

Project Overseers of APEC HRD 01-2018 and 05-2019

Masami Isoda (University of Tsukuba), Roberto Araya (University of Chile), Sofian TajulArus (Ministry of Education, Malaysia), Maitree Inprasitha (Khon Kaen University)

1530–1600 hrs	Tea/coffee Break

1600–1730 hrs

IV. Presentation 1 by Specialists

Toh Tim Lam (NIE, Singapore)

Hee Chan Lew (KNUE, Korea)

Ivan Vysotskiy, (Moscow Center for Continuous Mathematics Education, Russia)

1730-1800 hrs	Break (Supper)

1800-2100 hrs — *Further sessions for the Malaysia seminar and editorial for specialists*

Wednesday 12 February 2020 (Tentative)		
0830–1030 hrs	**VI.**	**Presentation 2 by Specialists**
		Chi Thanh Nguyen (Vietnam National University, Vietnam)
		Mash Manjawani Binti Mat (Ministry of Education, Malaysia)
		Maitree Inprasitha (Khon Kaen University, Thailand)
1030–1100 hrs		Tea/coffee Break
1100–1230 hrs	**VII.**	**Presentation 3 by Specialists**
		Wahid Yunianto (SEAMEO Qitep in Math, Indonesia)
		Totok Suprayitno (Indonesia University of Education)
		Roberto Araya (University of Chile)
1230-1330 hrs		Lunch Break
1330-1600	**VIII**	**Discussion and Preparation for Summary Report of the Research Meeting**
1600-1700	**IX**	**Summary Report and Closing Ceremony**
		Summary by the Project Overseers
		Caroline Benton, Vice President, University of Tsukuba
1700-2100 hrs		*Further sessions such as a workshop of robot programing for computational thinking and planning the Malaysia seminar for specialists which includes the meals*

Invitation and Further Information

Tokyo meeting will be supported by Japan (University of Tsukuba) or self-funds. Specialists are selected by the Project Overseers. It will be communicated on the invitation letter after your contact to Project overseer. If you use self-grants for your accommodations, the following hotels are recommended and please book by yourself because the rate on the web is much cheaper than the University arrangement:

- Toyoko Inn Tokyo Korakuen Bunkyokuyakusho Mae
  https://www.toyoko-inn.com/eng/search/detail/00081
- Toyoko Inn Tokyo Otsuka-eki Kita-guchi No.1
  https://www.toyoko-inn.com/eng/search/detail/00026
- Toyoko Inn Tokyo Yamanote-sen Otsuka-eki Kita-guchi No.2
  https://www.toyoko-inn.com/eng/search/detail/00139
- R&B Hotel Otsuka Eki Kitaguchi
  http://randb.jp/en/otsuka/
- Toyoko Inn Tokyo Ikebukuro Kita-guchi No.1
  https://www.toyoko-inn.com/eng/search/detail/00096
- Toyoko Inn Tokyo Ikebukuro Kita-guchi No.2
  https://www.toyoko-inn.com/eng/search/detail/00007

Participants who book accommodations through on-line booking such as AGODA and others, the area of Ikebukuro, Korakuen, and Ochanomizu are recommended. Some hotels provide a good price for first two days, only. In such a case, change the hotels will be a good strategy.