

APIE update@ AP* retreat

September 3, 2024

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apie.soi.asia



About myself

Noriatsu Kudo, Ph.D

- Work:
 - Project assistant professor, **Keio University Japan**
- Community activity
 - WIDE Project, board member
 - APIE program, lead



SOI-Asia

Design a **Resilient Future** in Asia Pacific



Research, Development, Operation and Education Sub-projects

Community Based
Research
Framework



Education for
Social Resilience



Education for Internet
Infrastructure Resilience



ID • Micro-credential Digital Platform

Inxignia

Research Data Platform for Promoting Open Science

Research Network Testbed



ARENA-PAC
Research and Education Network (REN)



Asia Pacific Internet Engineering Program

- **SOI Asia** (<https://www.soi.asia>) sub-project
 - Started in 2021
- **Community based** education program
- University students and **young people** in the Asia Pacific
- Skills needed to meet the global demand for Internet engineers in industry and academia, including **RENs**.

4 Advisory members & 9 Curriculum Committee members from ..

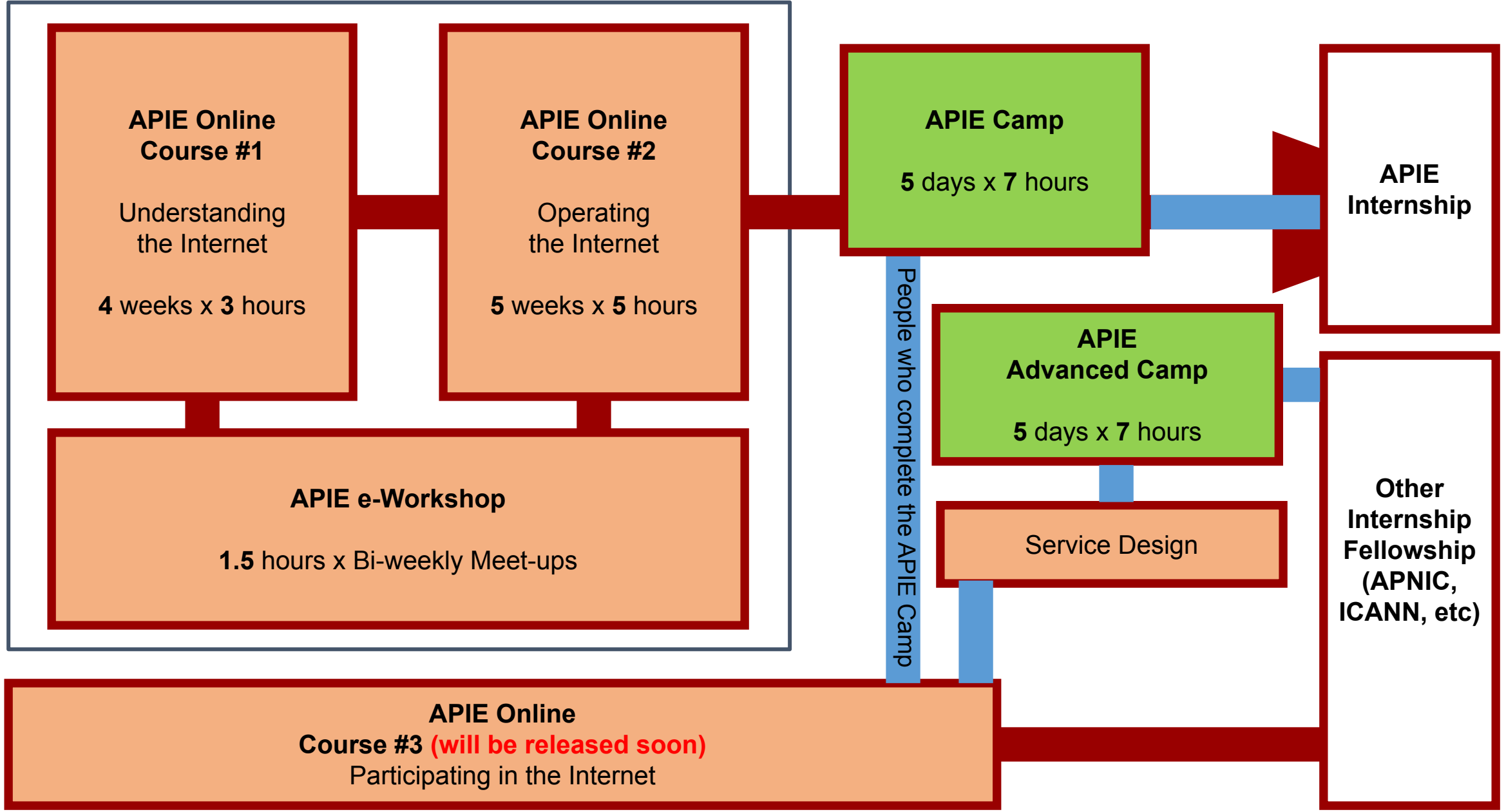


Objectives

1. Understand the **philosophy** and practical **skills** of Internet operation and engineering.
2. Join a **community** and build a **human network** in the **Asia Pacific** region for the Internet operation, engineering, and research for the **future**.
3. Build connections to the **industry** in the Asia Pacific region for their **future career**

APIE Program overview

- **Who can join**
 - Students from SOI Asia partner universities(over 30 universities)
 - Public version(Online course only) is open for everyone
- **What it is(Course components)**
 - **Online courses**
 - E-learning courses(anytime/ anywhere)
 - Workshops(anywhere)
 - **Face to Face training**
 - 1 week training camps
 - **Internship**
 - Both online and Face to Face



APIE Accomplishments in FIGURES(2024/08)

- Batches(Set of courses in 2 month): **5**
- Camps: **6 (Keio, ITB, ITB-local, USM, Keio-Advanced, UNHAS/USM)**
- Students enrolled: **1488**
 - **(+573 in Batch 4, +360 in Batch 5)** from 33 universities in 11 economies
- APIE Badge issued: **990**
- Students joined APIE Camp: **92 (10 from ITB local camp)**
- Students joined Internship: **52**
- Public version learners: **775 from 90 countries & economies**
- Guest speakers invited to e-workshop: **20**

Universities in the program

New universities in program in 2024

- Vietnam
 - UTC (University of Transport and Communications)
 - University of Transport Ho Chi Minh City
 - ULIS (University of Language and International Studies)
 - STU (SaiGon Technology University)
 - PTITHCM (Posts and Telecommunications Institute of Technology in Ho Chi Minh City))
 - PTIT(Posts and Telecommunications Institute of Technology) Hà Nội
 - Lincoln University College
 - Đại học Duy Tân
 - Da Nang University of Science and Technology
 - BVS
 - Gia Dinh University
 - FPT Polytechnic
 - Duy Tan University
 - DTU (Duy Tan University)
 - HUST (Hanoi University of Science and Technology)
 - VKU (Vietnam Korea University)
 - VJU(Vietnam Japan University)
- Indonesia
 - UIN Ar-Raniry
- Philippines
 - USC(University of San Carlos)
- Malaysia
 - Asia Pacific University Technology and Innovation
- Myanmar
 - UCSY
 - UCSM
- Timor-Leste
 - UNTL

Existing universities

- Nepal
 - TU (Tribhuvan University)Pulchowk Campus, Tribhuvan University
- Bangladesh
 - BUET (Bangladesh University of Engineering and Technology)
- Japan
 - iU
 - Keio university
- Indonesia
 - ITB (Institut Teknologi Bandung)
 - USK (Universitas Syiah Kuala)
 - UNHAS (Universitas Hasanuddin)
 - UB (Brawijaya Univesity)
 - UNSRAT(Universitas Sam Ratulangi)
- Malaysia
 - USM (Universiti Sains Malaysia)

Many partner universities from Vietnam due to VNNIC partnership

Collaboration with VNNIC In April-June 2024

- Worked with VNNIC at 3 locations (Hanoi, Ho Chi Minh and Da Nang)
- VNNIC provides office and mentors for E-Workshop
 - Discuss in native language
 - keep learners motivations
 - Online workshop for Vietnamese learners
 - VNNIC invited learners to “Youth workshop” in Hanoi on 6/4 (With APNIC, JPNIC speakers)
 - Guest speaker from VNNIC
- Help nominating students for APIE program



SOI Asia Project

298人のフォロワー

1日前 • 📍

SOI Asia attended VNNIC's Youth Workshop in Hanoi (4 June). VNNIC has been contributing to fostering a young community of students who will build trust and security of the Internet in Vietnam an ...さらに表示

[翻訳を表示](#)



VNNIC

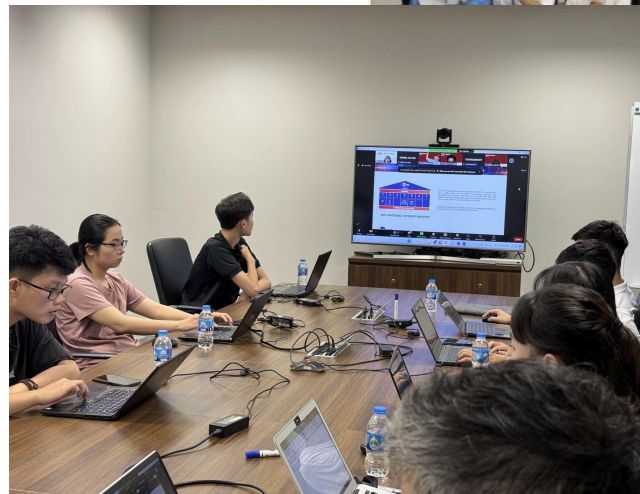
90人のフォロワー

2週間前 • 📍

[フォロー](#)

Trong bối cảnh chuyển đổi số diễn ra mạnh mẽ, Việt Nam, cũng như nhiều quốc gia khác, đang trong quá trình phát triển của những công nghệ tiên tiến, hiện đại như IPv6, 5G, 6G, AI, Cloud ... dĩ ...さらに表示

[翻訳を表示](#)



1件のコメント

[コメント](#)

[再投稿](#)

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APIE Online

Storytelling &
Conversation

Project
based

#1 Understanding the Internet

- w1: **What** is the Internet?
- w2: **How** is the Internet Working?
- w3: **Application** on the Internet
- w4: Internet Based **Society**

+ Virtual Labs

APNIC Academy
& AITAC

#2 Operating the Internet

- w1: **Plan** your network
- w2: **Routing** and routers
- w3: **Switching** and physical connectivity
- w4: Managing the **name and address**
- w5: **IPv6** fundamentals

APIE E-Workshop

- Objectives
 - Community
 - Career
 - Hands-on
- Bi-Weekly session
 - Saturday 16:00-17:30(UTC+9)
- Contents
 - Guest lectures
 - Hands-on session by AITAC
 - Batch01,02
 - Interop Tokyo Shownet virtual visit (video and VR tour)
 - QA and discussion in breakout room
 - Quiz session by TAs



APIE Camp:

5-day project-based hands-on program

Day1

**Network
deployment**



Day2

Virtualization



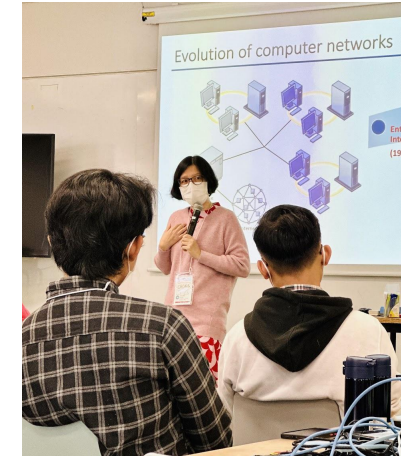
Day3

DNS



Day4

**Cloud computing
& AWS**



Day5

**Summary &
SOC visit**

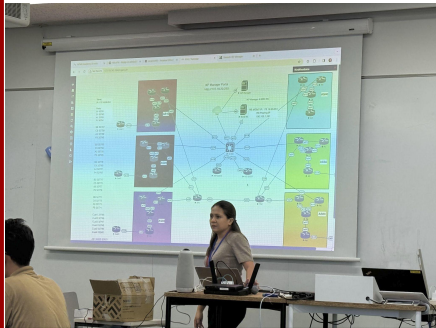


APIE Advanced Camp:

5-day hands-on programs (1st in Keio, 2024/03)

Day1

BGP



Day2

**Database
(SQL)**



Day3

**Computer
architecture
(VM, container)**



Day4

**Network
Operation**



Day5

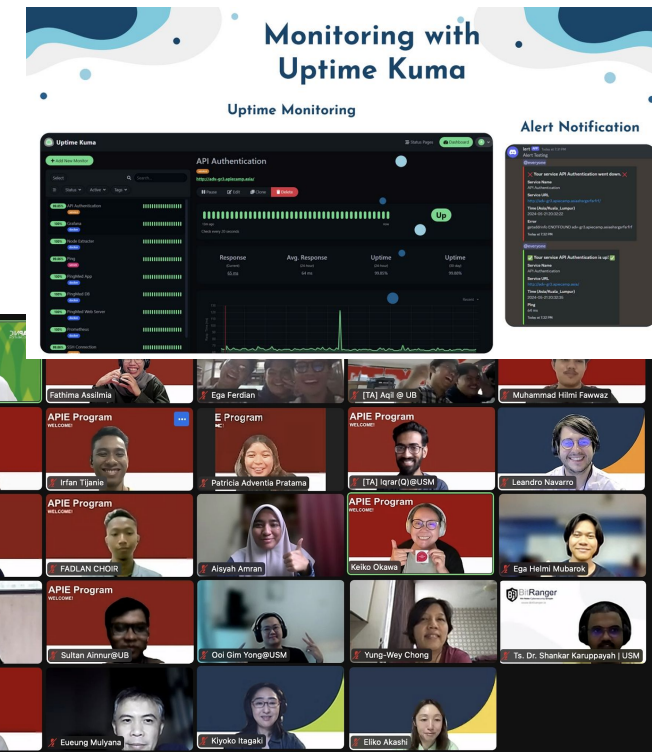
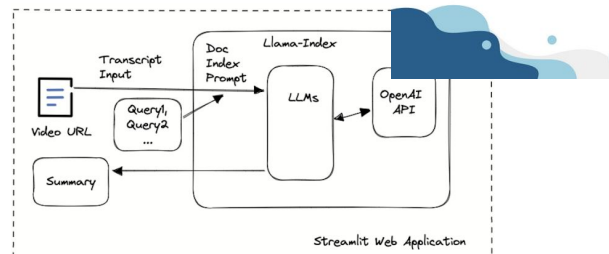
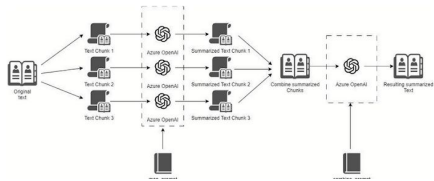
**Summary &
Datacenter visit
(IIJ Shirai)**



- # Group 1 APIE MATERIAL SUMMARIZER

- Material scattered - the usage of the google drive is not that efficient
- Decentralize assessment of form - mission sheet

- Main features
 - Centralized user management (learning material)
 - Mission sheet AI summarizer
- Supporting features
 - Login system
 - Web monitoring system

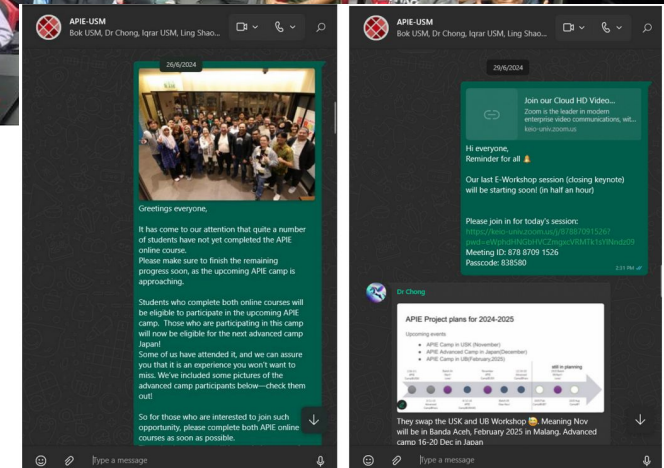
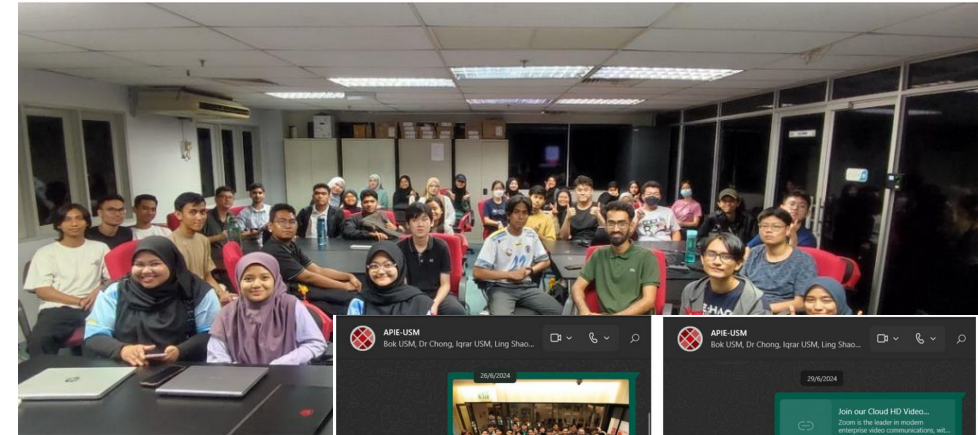


APIE-Internship

Stay connected with the community.

Provide opportunity to use the skills and knowledge from our learning.

- TA Internship for Batch#02-#05
 - 11 interns for Batch#02
 - 8 interns for Batch#03
 - 11 Interns for Batch#04
 - 12 Interns for Batch#05
- Camp TA Internship
 - 6 interns for APIE Camp#02 @ ITB
 - 5 Interns for APIE Camp#03 @ USM
 - 10 Interns for APIE Camp#04 @ UNHAS/USM
- WIDE Camp network team Internship
 - 4 interns in September, 2023

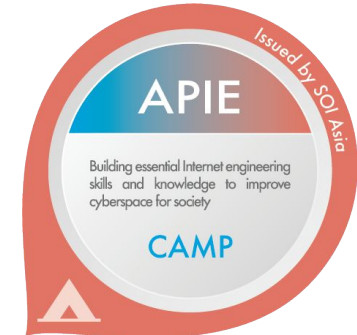
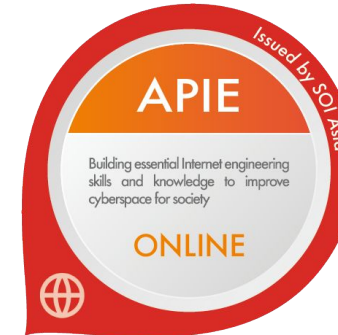
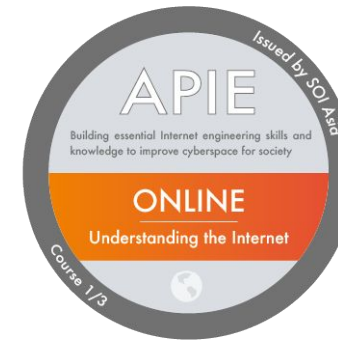
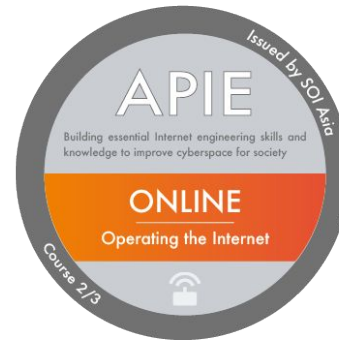


Certificate & Open Badge (Inxignia)



Welcome to Inxignia

Inxignia is a platform that gives you a way to collect, manage, and share your education achievements as digital badges and authenticate them with micro credentials to ensure their authenticity to be used in an e-portfolio to show your competencies to society.



<https://inxignia.soi.asia/>

Future Plan (2024-2025)

- 3 batches and 3 Camps every year!

	2024/09	2024/10	2024/11	2024/12	2025/01	2025/02	2025/03	2025/04	2025/05	2024/06	2024/07	2024/08
Core courses (Batch)	Batch 05					Batch 06						Batch 07
Camp			USK camp (Indonesia 11/18-22)			UB camp (Indonesia 2/10-14)			Advanced Camp (Japan) TBD			Location not decided Camp
Internship	Batch 05 TA					Batch 06 TA						Batch 07 TA
		Camp TA			Camp TA						Camp TA	

Why I am here today

- Looking for internship/fellowships for APIE certificate(badge) holders
- Looking for collaboration in network engineer training/Internet governance related topics
 - Material/curriculum/guest lectures etc
 - Interested in using our curriculum in your organization/university
- Something interesting to discuss!?
 - If you are interested in our activities, let me know.