



# ANNUAL REPORT 2024

**Institute for Research and Development  
in Teaching Profession for ASEAN  
Khon Kaen University, Thailand**



# CONTENTS

Organization and Administration	<b>1-12</b>
• Background of the Institute	<b>1-5</b>
• Organizational Structure	<b>6-12</b>
Performance Results by Strategic Issues	<b>13-41</b>
• Summary of Performance Results for 2024	<b>13-19</b>
• Strategic Issue 2: Research Transformation	
OKR-16	<b>20-22</b>
OKR-18	<b>23</b>
• Strategic Issue 4 : Societal Contributions	
OKR-39	<b>24-29</b>
• Strategic Issue 9 : Internationalization	
OKR-65	<b>30-34</b>
OKR-67	<b>35-41</b>
Appendix Details of Projects/Activities by Strategic Issues	<b>42-82</b>





# VISION

Institute for Research Development in Teaching Profession for ASEAN (IRDTP) is principally dedicated to providing innovations and technology-oriented learning services for improving the quality of the teaching profession.

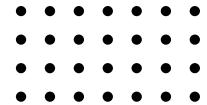


# Mission

Institute for Research and Development in Teaching Profession for ASEAN (IRDTP) provides innovative and technology-oriented training and research-based solutions to enable the education community to effectively respond to current and emerging needs and concerns in Thailand and other ASEAN countries.

# GOALS

**Institute for Research and Development in Teaching Profession for ASEAN (IRDTP) aims to train and develop teachers and educational personnel for the emergence of the knowledge society and accelerating change to contribute a new paradigm of knowledge production in the teaching profession in Thailand and other ASEAN countries.**



# I OBJECTIVES

- 01** The center of human resources consists of experts from either Thailand or other ASEAN countries in conducting teacher professional development research in line with the world research directions.
- 02** To provide innovative and technology-oriented learning services and research-based solutions for the education community in Thailand and other ASEAN countries.
- 03** To produce, develop, and distribute teaching materials and intellectual property according to research-based solutions to support teacher professional development.
- 04** To create research and teaching professional development networking between schools and higher education institutions to sustain human resource development for Thailand and other ASEAN countries.



# History

## Institute for Research and Development in Teaching Profession for ASEAN



Institute for Research and Development in Teaching Profession for ASEAN at Khon Kaen University was established as an entity dedicated to conducting research for the advancement of the teaching profession and to provide academic services to schools and educational agencies both domestically and through collaborative networks across ASEAN countries.

### In 2002

A group of mathematics education researchers received approval from Khon Kaen University to conduct research in mathematics education. This group initiated the development of educational innovations such as Lesson Study and the Open Approach, which are innovations aimed at reforming mathematics education. These efforts were undertaken in collaboration with the University of Tsukuba, Japan.

### In 2003

The Faculty of Education supported the expansion of research activities to secure support from the APEC Human Resources Development Working Group.

### In 2004

The Faculty of Education supported the establishment of the Mathematics Education Research Group as Center for Research in Mathematics Education within the Faculty of Education at Khon Kaen University.

### In 2006

Center for Research in Mathematics Education began the full-scale implementation of Lesson Study and the Open Approach in schools, specifically at Khukham Pittayasan School and Chonnabot Community School.

### In 2007

Center for Research in Mathematics Education was officially approved as a specialized research center of Khon Kaen University.

### In 2008

Khon Kaen University promoted Center for Research in Mathematics Education as a hub for mathematics education researchers from universities nationwide. The center, together with the Center for Applied Mathematics and the Center for Integrated Mathematics, was established as the Centre of Excellence in Mathematics for the country.

**In 2009**

The government assigned the Office of the Higher Education Commission, the Office of the Basic Education Commission, Khon Kaen University, Chiang Mai University, and Ubon Ratchathani University to jointly implement a project for the professional development of mathematics teachers. This project expanded the pilot schools under the research center from 4 to 23 schools across the Northeastern and Northern regions.

**In 2010**

Khon Kaen University supported the Faculty of Education in collaboration with the Faculty of Science and the Faculty of Humanities and Social Sciences to establish a research and human resource development cluster aimed at enhancing the quality of basic education under the National Research University Project.

**In 2014**

Khon Kaen University supported the Faculty of Education and Center for Research in Mathematics Education in implementing The Project of development of students mathematics higher order thinking at North east of thailand. To further the success of research and teacher professional development, Khon Kaen University established the Institute for Research and Development in Teaching Profession for ASEAN as a unit under the Office of the President, under the university's supervision. The institute was established to serve as the principal agency for in-depth research and development to integrate the needs of teacher professional development nationwide with the directions and requirements of the ASEAN Economic Community, thereby enhancing Thailand's international competitiveness. The establishment of the Institute for Research and Development in Teaching Profession for ASEAN at Khon Kaen University, as a unit under the Office of the President and under university supervision, was formalized by Khon Kaen University Council Announcement No. 5/2557, dated July 2, 2014. Associate Professor Dr. Maitree Inprasitha was appointed as Acting Director of the Institute on November 12, 2014. The institute initially used the Office of Academic Administration and Development as its temporary office.

**In 2015**

To ensure the smooth administration of the Institute, Mr. Preecha Kruewan and Assistant Professor Kiat Sangaroon, both possessing expertise and experience in administration, were appointed as Acting Deputy Directors of the Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, effective February 16, 2015.

**In 2016**

To further facilitate the operations of the Institute, Associate Professor Jumpol Rachvijit was appointed as Acting Deputy Director for Academic Services. During this period, the Institute relocated its temporary office to Room 1352, 3rd Floor, Faculty of Education, Khon Kaen University.

**In 2017**

The construction of Building 1 of Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University was completed, with the final inspection by the acceptance committee conducted on August 16, 2017. The Institute subsequently relocated its office to this new building.

**in 2018  
to Present**

Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University has played a significant role in conducting in-depth research and development in the teaching profession. The Institute operates under the supervision of its governing board and collaborates with the Faculty of Education, Center for Research in Mathematics Education, and various units within Khon Kaen University to drive the practical advancement of teacher professional development. Khon Kaen University and the University of Tsukuba have jointly researched and developed educational innovations to address human resource development needs for the 21st century. The Center for Research on International Cooperation in Educational Development (CRICED), University of Tsukuba, established its Thailand office on the 1st floor of the Institute's building at Khon Kaen University. This office facilitates academic information and coordination for students, faculty, and researchers pursuing lesson study and educational research at the University of Tsukuba, Japan.



# ORGANIZATIONAL STRUCTURE

Institute for Research and Development in Teaching Profession for ASEAN

## Office of the President

Institute for Research and Development  
in Teaching Profession for ASEAN

Board of the Institute for Research  
and Development in Teaching  
Profession for ASEAN

## Administrative Division

Research and Innovation  
Development Division

Professional Development and  
Academic Services Division

## Administrative Division

Research and Innovation  
Development Division

Professional Development and  
Academic Services Division

General Affairs

Secretariat

Meeting Coordination

Human Resource  
Management

Finance

Public Relations and  
Corporate Communication

Procurement

International Relations

Planning and Strategic  
Development

Technology and  
Information Management

Research Grant Allocation

Research Support

Research Publication  
and Presentation

Innovation Development

Intellectual Property  
Management

Professional Development  
Programs/Training

Training and Capacity  
Building for Educators

Academic Services

Certification of Training and  
Development Programs

Promotion of Student  
Competency and Desired  
Attributes

# GOVERNING BOARD MEMBERS

Institute for Research and Development in Teaching Profession (IRDTP)  
for ASEAN, Khon Kaen University

## Top Management

### Advisory Board



**Dr. Tej Bunnag**

Secretary-General of the Thai Red Cross Society



**Mr. Surapon Petch-vra**

Vice Chairman of Khon Kaen University Council



**Dr. Benjalug Namfa**

Director and Manager of the Prince  
Maha Chakri Award



**Dr. Twarath Sutabutr**

Director of the Office of Knowledge  
Management and Development

# Executive Board



**Assoc. Prof. Dr. Chanchai Panthongwiriyakul**

President of Khon Kaen University



**Asst. Prof. Dr. Narin Chansri**

Dean of Faculty of Pharmaceutical Sciences Khon Kaen University



**Asst. Prof. Dr. Araya Ahromrit**

Dean of Faculty of Technology Khon Kaen University



**Asst. Prof. Dr. Kiat Sangaroon**

Dean of Faculty of Interdisciplinary Studies



**Asst. Prof. Dr. Orathai Piayura**

Dean of Faculty of Humanities and Social Sciences



**Prof. Dr. Monchai Duangjinda**

External Expert from Faculty of Agriculture Professor



**Prof. Dr. Yongwimol Lenburi**

External Expert from Mahidol University



**Assoc. Prof. Prawit Erawan**

External experts from Secretary-General of the Education Council



**Dr. Boonrak Yodphet**

External Expert from Office of the Basic Education Commissions



**Ms. Sunipa Swai-ngern**

Director for the Office of the President



**Asst. Prof. Dr. Phongthanat Sae-joo**

Director of Institute for Research and Development in Teaching Profession for ASEAN

# Administration Members



**Asst. Prof. Dr. Phongthanat Sae-joo**

Director of Institute for Research and  
Development in Teaching Profession for ASEAN



**Asst. Prof. Dr. Sakowduen Sathum**

Deputy Directors of Institute for Research and  
Development in Teaching Profession for ASEAN



**Asst. Prof. Nareenard Klinhom**

Assistant Director of Administrative  
Affairs and Information



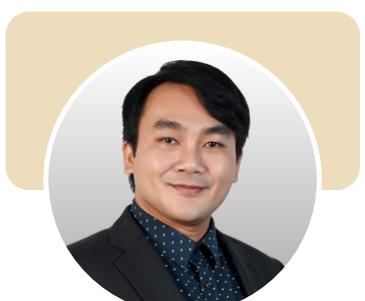
**Asst. Prof. Dr. Romklao Jantharasee**

Assistant Director of Professional  
Development and Academic Services



**Asst. Prof. Dr. Narumon Changsri**

Assistant Director of Research and  
Innovation Development



**Asst. Prof. Dr. Sanit Srikoon**

Assistant Director of Special Activities  
and Strategy



**Asst. Prof. Dr. Watchara Suyara**

Assistant Director of International Affairs  
and Corporate Communications



**Assoc. Prof. Dr. Maitree Inprasitha**

Senior Researcher of Institute for Research and  
Development in Teaching Profession for ASEAN

# External Supervisory Team



**Assoc. Prof. Auijit Pattanajak**



**Ms. Pornpimol Thakaworabut**



**Dr. Kesorn Thongsaen**



**Mrs. Sudsanguan Klangkan**



**Mrs. Narumon Inprasitha**



**Miss. Choratorn Nonting**



**Mrs. Areewan Silarat**



**Dr. Phumiphat Ruenglae**



**Dr. Apichat Nalouh**



**Pol.Cpl. Phonthong Pengwongsa**



**Mr. Wiyakorn yanachot**



**Mr. Taweesak Chaimayo**



**Mr. Khamphiane Mekchone**



**Mr. Somrak Phommasuk**



**Mr. Phithak Sukchan**



**Dr. Anek Sudjamnong**



**Mr. Suwat yanako**



**Mr. Arayan Sangnikool**



**Mr. Nuseng Jebu**

# Support Staff at Institutional Level



**Mr. Uk Inprasitha**

Specialist in Teaching Profession and Educational Staff Development



**Miss. Piranut Aimthong**

Administrative Officer



**Dr. Sunti Bunlang**

Researcher



**Miss. Apinya Nimmongkon**

International Relations Officer



**Mr. Krairat Manhathao**

Audio-Visual Technical Office



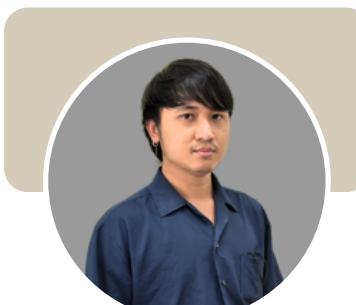
**Miss. Patsuda Piboon**

Supply Analyst



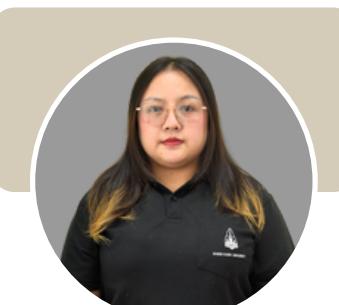
**Miss. Kamonchanok Japa**

Educator



**Mr. Atsadawut Khotma**

Information Technology Officer



**Miss. Pranphit Purampaga**

Administrative Officer

# Summary of Operations for Fiscal Year 2024

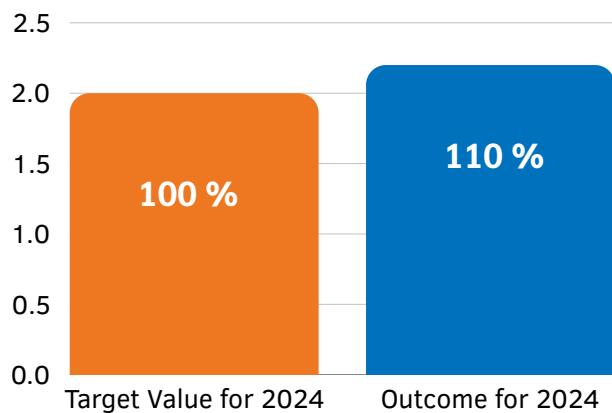


Performance according to the target values of Objective Key Results (OKR)

OKR	OKR Description	Performance
<b>OKR-16</b>	Amount of research funding (million Baht)	<b>2.2 million Baht</b> 2 projects, 97 schools
<b>OKR-18</b>	Percentage of research articles published internationally in the Scopus/ISI databases	<b>1 article in Scopus Q1</b> <b>1 article in Scopus Q3</b> total of 32 articles
<b>OKR-39</b>	Number of academic service projects aimed at organizations/communities utilizing research and innovation according to SDG4 and SDG17	<b>5 projects</b> 2,420 participants
<b>OKR-65</b>	Number of activities/projects promoting the ranking of Khon Kaen University by THE, QS Ranking, or CWTS Leiden	<b>4 projects</b> 326 participants
<b>OKR-67</b>	Number of non-degree students, both outbound and inbound, at undergraduate and graduate levels, increased from the previous year	<b>28 students</b> 5 projects 390 participants in training sessions

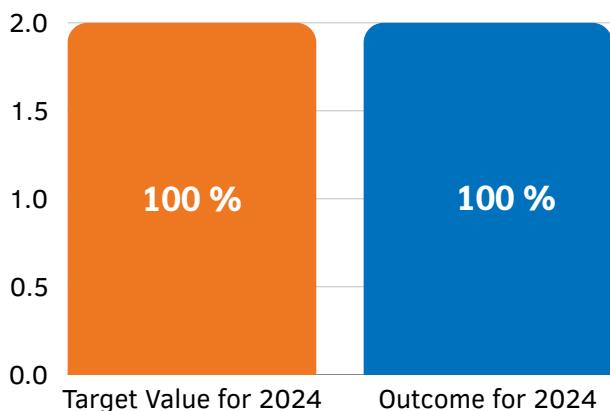
## OKR-16

Amount of Research Funding (Million Baht)



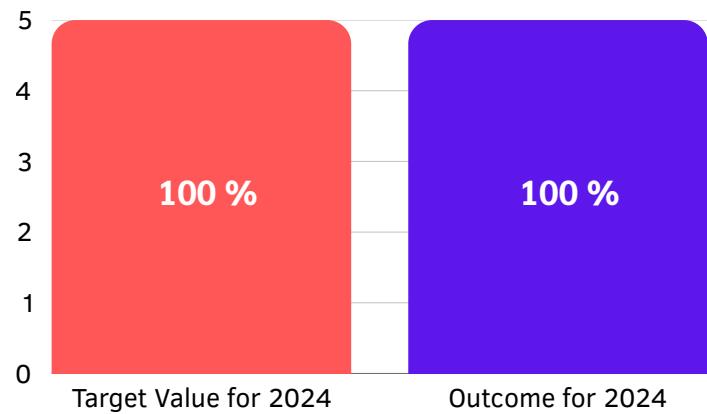
## OKR-18

Percentage of Research Articles Published Internationally in the Scopus/ISI Databases



## OKR-39

Number of academic service projects aimed at organizations/communities utilizing research and innovation according to SDG4 and SDG17



## OKR-65

Number of activities/projects promoting the ranking of Khon Kaen University by THE, QS Ranking, or CWTS Leiden



## OKR-67

Number of non-degree students, both outbound and inbound, at undergraduate and graduate levels, increased from the previous year



# Performance Results According to the Strategic Issues of Khon Kaen University



## Strategic Issue 2: Research Transformation

**Strategic Objective 2: Support the development of large-scale research projects that are conducted by teams and carried out continuously (Research programs/clusters).**

**OKR-16** Amount of research funding (million Baht)

### Plans

1. Encourage researchers to form research teams (Research programs/clusters).
2. Promote advanced research projects that lead to innovations with transformative and high impact on the economy, community, and society.

### Performance according to target outcomes (Objective Key Result: OKR)

Target value	Performance for Quarter 1	Performance for Quarter 2	Performance for Quarter 3	Performance for Quarter 4	Unit
2.00	0.20	2	-	-	million baht
Total quarterly results 1-4				2.20	million baht

**Percentage of Achievement : 110 %**

**Percentage Exceeding the Target : 10 %**



OKR Achievement Evaluation Criteria:

- (100%) Achieved or exceeded the target
- (80-99%) Slightly below the target
- (60-79%) Partially achieved/slightly behind target
- (40-59%) Significantly behind target
- (1-39%) Implementation initiated

### Projects/Activities:

1. Project for Driving Area-Based Self-Improving Schools (TSQA), Khon Kaen Province
2. Coaching training project for network schools utilizing the Transformative Lesson Study incorporated with Open Approach (TLSOA) innovation



## OKR-18

### Percentage of research articles published internationally in Scopus/ISI databases

#### Plans

1. Develop a support system to enhance high-quality and high-impact research publications.

#### Performance according to target outcomes (Objective Key Result: OKR)

Target value	Performance for Quarter 1	Performance for Quarter 2	Performance for Quarter 3	Performance for Quarter 4	Unit
2	1	1	-	-	article
Total quarterly results 1-4				2	article

#### Percentage of Achievement : 100 %



#### OKR Achievement Evaluation Criteria:

- (100%) Achieved or exceeded the target
- (80-99%) Slightly below the target
- (60-79%) Partially achieved/slightly behind target
- (40-59%) Significantly behind target
- (1-39%) Implementation initiated

#### Published Research:

##### 1 Scopus Q1 publication

- Students' mathematization in mathematics classrooms using the Thailand lesson study incorporated open approach model  
Authors: Sunti Bunlang, Maitree Inprasitha, Narumon Changsri.

##### International Journal for Lesson and Learning Studies.

COUNTRY	SUBJECT AREA AND CATEGORY	PUBLISHER	SJR 2024
United Kingdom	Social Sciences ↳ Education	Emerald Group Publishing Ltd.	0.732 <span style="background-color: #808000; color: white; padding: 2px 5px;">Q1</span>
 Universities and research institutions in United Kingdom			H-INDEX
 Media Ranking in United Kingdom			25

##### 1 Scopus Q3 publication

- Blended learning classroom model: a new extended teaching approach for new normal.

Authors: Maitree Inprasitha.

International Journal for Lesson and Learning Studies.

# Strategic Issue 4: Societal Contributions

## Strategic Objective 3: Support and strengthen communities and society (Community Support)

**OKR-39**

Number of academic service projects aimed at agencies/communities that utilize research and innovations according to the concepts of SDG4 and SDG17

### Plans

1. Promote collaboration toward sustainable community and societal development goals:
  - Integrate efforts to reduce economic inequality and address poverty
  - Promote food, water, and energy security for society and communities
  - Advance health, education, and environmental management within communities

Performance according to target outcomes (Objective Key Result: OKR)

Target value	Performance for Quarter 1	Performance for Quarter 2	Performance for Quarter 3	Performance for Quarter 4	Unit
5	2	3	-	-	project
Total quarterly results 1-4			5		project

**Percentage of Achievement : 100 %**



OKR Achievement Evaluation Criteria:  
(100%) Achieved or exceeded the target  
(80-99%) Slightly below the target  
(60-79%) Partially achieved/slightly behind target  
(40-59%) Significantly behind target  
(1-39%) Implementation initiated

### Projects/Activities:

1. Project "Fostering Environmental Awareness by Using STEAM Education to Solve Problems"
2. The 5th Mathematics Festival of Thailand
3. Workshop on Developmental Evaluation (DE) and Directions for Advancing the Area-Based Self-Improving Schools Movement in Khon Kaen Province
4. PME Regional Conference 2023
5. The 17th National Open Class (TLSOA)



# Strategic Issue 9: Internationalization

## Strategic Objective 3: Support Strategies for Higher World University Ranking

**OKR-65** Number of Activities/Projects Promoting Khon Kaen University's Ranking by THE, QS Ranking, or CWTS Leiden

### Plan

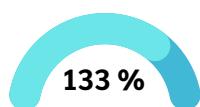
1. Support strategies for higher World University Ranking.

Performance according to target outcomes (Objective Key Result: OKR)

Target value	Performance for Quarter 1	Performance for Quarter 2	Performance for Quarter 3	Performance for Quarter 4	Unit
3	1	-	1	2	project
Total quarterly results 1-4			4		project

**Percentage of Achievement : 133 %**

**Percentage increase : 33 %**



OKR Achievement Evaluation Criteria:

(100%) Achieved or exceeded the target

(80-99%) Slightly below the target

(60-79%) Partially achieved/slightly behind target

(40-59%) Significantly behind target

(1-39%) Implementation initiated

### Projects/Activities:

1. 2024 KNUE - KKU Teacher Training: Reskill and Upskill to Enhance the Quality of Teacher Education in the Digital Era.
2. The 17th APEC-TSUKUBA International Conference under on topic "Online Workshops for Lesson Study 2.0: Unplugged Computational Thinking in APEC Economies".
3. KNUE UNITWIN the 8th UNESCO UNITWIN International Conference.
4. Professional Development for Teachers and School Leaders Program

## Strategic Objective 4: Create Internationalization in Terms of Faculty, Staff, Students, and Environment (International Environment) and Promote the Visibility of Khon Kaen University on the Global Stage

**OKR-67** Number of Non-Degree Students, Both Outbound and Inbound, at the Undergraduate and Graduate Levels, Increased from the Previous Year

### Plan

1. Support exchange scholarships for students, both those going abroad to study and those coming to study at Khon Kaen University (Outbound & Inbound exchange fund). Increase the number of non-degree students, both Outbound and Inbound, at the Bachelor's and Graduate levels.
2. Support the development of the internal environment of the university to promote internationalization.
3. Promote universal competencies for personnel for internationalization.

#### Performance according to target outcomes (Objective Key Result: OKR)

Target value	Performance for Quarter 1	Performance for Quarter 2	Performance for Quarter 3	Performance for Quarter 4	Unit
28	-	8	-	20	project
Total quarterly results 1-4			28	project	

**Percentage of Achievement : 100 %**



OKR Achievement Evaluation Criteria:  
(100%) Achieved or exceeded the target  
(80-99%) Slightly below the target  
(60-79%) Partially achieved/slightly behind target  
(40-59%) Significantly behind target  
(1-39%) Implementation initiated

### Projects/Activities:

1. Faculty members and graduate students from Naruto University of Education, Japan, visited and participated in activities with students.
2. Student Exchange Project for Teaching Experience and Participation in Activities at the Khon Kaen University Demonstration School, Secondary Division.
3. Student Exchange Project from Toho University.
4. Student Exchange Project from University of Tsukuba.
5. Special Lecture and Workshop for Graduate Students and Teaching Practice Students in Educational Institutions Using TSOA Innovation by Prof. Hideyo Emori, Otani University for Research and International, Japan.



## Strategic Issue 2: Research Transformation



## Strategic Issue 2: Research Transformation

Strategic Objective 2 Support the development of large-scale research projects that are conducted by teams and carried out continuously (Research programs/clusters).

**OKR-16 , OKR-18**

# Project for Driving Area-Based Self-Improving Schools (TSQA), Khon Kaen Province

## Background and Significance

The enhancement of school quality and associated target groups in the execution of the Self-Developing School Project, conducted by Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, involves a core team with extensive experience in piloting and advancing the entire school system in partnership with the supervising agency in Khon Kaen province. They acknowledge the significance of collaborative learning environments, recognizing that students must engage in collective learning at both the school and classroom levels to ensure that innovations align with regional development needs. They facilitate support and encourage target schools to pursue systemic self-development (Whole School Approach) tailored to the school's context, leveraging essential resources such as classroom educational innovations through the Thailand Lesson Study Incorporated Open Approach (TLSOA) and other advancements within Khon Kaen province.

## Key Activities Implemented in 2024

## Building multi-stakeholder engagement at the area/provincial level



Expansion of implementation to the subjects of Mathematics, Science, Thai Language, Social Studies, and the development of integrated learning units.



Jointly setting shared goals for driving Active Knowledge Sharing within the area, to support knowledge transfer and continuity of implementation. This includes conducting Transition Processes in collaboration with school administrators, supervisors (educational supervisors), and personnel from: Educational Service Area Offices, Provincial Education Offices, Provincial Private Education Offices



Implementing Reskill, Upskill, and New Skill activities to develop technical training for educational supervisors, focusing on Active Learning that emphasizes learner competencies.



Organizing forums where educational supervisors take active roles as discussants and moderators in panel discussions on the topic: “Applying Lesson Study and the Open Approach in Practice” within national-level PLC platforms and in the National OPEN CLASS activities.



Establishing Memoranda of Understanding (MOUs) between Educational Service Area Offices and the Institute for Research and Development in Teaching Profession for ASEAN. Under these MOUs: Directors of Educational Service Area Offices provide strategic direction. Educational supervisors are assigned to oversee the implementation of innovations at the area level. Communities and universities participate in knowledge exchange activities.



Joint coaching between Khon Kaen University, Educational Service Area Offices, and schools to support the implementation of Active Learning. Activities are conducted both On-site and Online in compliance with provincial Covid-19 measures.



Educational Service Area Offices independently implement DE processes within their respective areas.

# OKR-16

Amount of research funding (million Baht)

## Coaching training project for network schools utilizing the Transformative Lesson Study incorporated with Open Approach (TLSOA) innovation

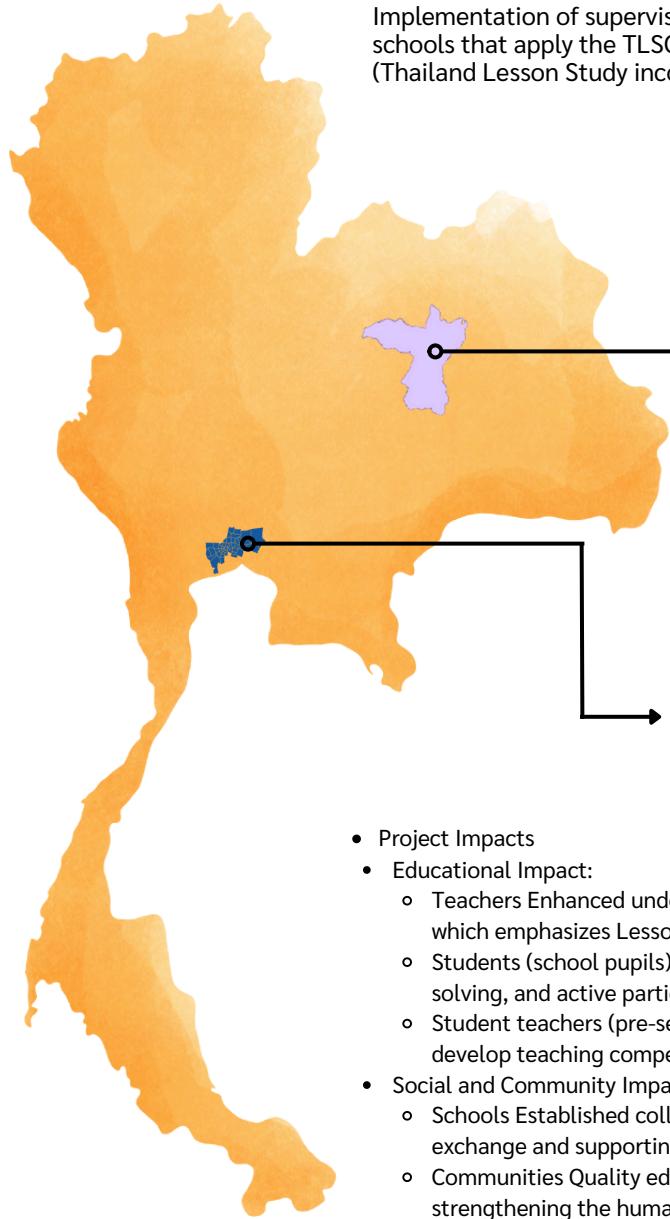


### Background and Significance

This activity is part of the Self-Improving Schools Project implemented by the Development Unit of Institute for Research and Development in Teaching Profession for ASEAN (IRDTP), Khon Kaen University, focusing on school quality development and related target groups.

Activity: Supervision, Monitoring, and Coaching of TLSOA Network Schools, 2024

Implementation of supervision, monitoring, and coaching for network schools that apply the TLSOA innovation (Thailand Lesson Study incorporated Open Approach) in 2024.



### Performance Report

- Implementation period: 12 February – 12 March 2024
- Participants: Researchers and lecturers from Khon Kaen University; school administrators and teachers; student teachers; and school students
- Funding support: 200,000 THB



#### Khon Kaen Province – Network Schools

- Chumchonbanchonnabot School
- Phuwiengwittayakhom School
- Nonthun Municipal School
- Bankudkwangprachasan School
- Wat Srichan School
- Bansa-ard School
- Ban Nong Siang Sui Non Sa-At School
- Ban Du Yai School
- Ban Non Khun School
- Kankuson Wathnongwaeng School

#### Bangkok Metropolitan Area – Network Schools

- Phratumnuk Suankularb School
- Vajiravudh College



- Project Impacts
- Educational Impact:
  - Teachers Enhanced understanding and skills in delivering instruction using the TLSOA innovation, which emphasizes Lesson Study with the Open Approach.
  - Students (school pupils) Gained learning experiences that emphasize analytical thinking, problem-solving, and active participation in classroom activities.
  - Student teachers (pre-service teachers) Received close supervision and coaching, helping them to develop teaching competencies and prepare for becoming professional teachers.
- Social and Community Impact:
  - Schools Established collaborative networks between schools and the university, promoting knowledge exchange and supporting local educational development.
  - Communities Quality education contributes to the development of young people's potential, strengthening the human capital that will drive community development in the future.
- Policy Impact:
  - Supports the university's strategic direction in research that emphasizes teamwork and societal impact, particularly in the development and implementation of educational innovations.

# OKR-18

Percentage of research articles published globally in the Scopus/ISI database.

Publishing research articles globally in the SCOPUS database.



## Performance Report

Publication of a research article in the Scopus Q1 index (international database).

- Students' mathematization in mathematics classrooms using the Thailand lesson study incorporated open approach model**  
Authors: Sunti Bunlang, Maitree Inprasitha, Narumon Changsri.  
International Journal for Lesson and Learning Studies.

## International Journal for Lesson and Learning Studies

COUNTRY	SUBJECT AREA AND CATEGORY	PUBLISHER	SJR 2024
United Kingdom	Social Sciences Education	Emerald Group Publishing Ltd.	<b>0.732</b> <span style="background-color: #92D050; padding: 2px 5px;">Q1</span>

Publication of a research article in the Scopus Q3 international database.

- Blended learning classroom model: a new extended teaching approach for new normal.**  
Authors: Maitree Inprasitha.  
International Journal for Lesson and Learning Studies.
- Project Impacts
  - Enhancing the Quality of Educational Research: Publishing research articles in reputable international journals (Scopus Q1, Q3) signifies the quality and credibility of the research, which is essential for elevating the standards of educational research in Thailand. The dissemination of this research will motivate researchers and educators to prioritize high-quality studies and to implement research findings in practical ways to advance education.

## Strategic Issue 4: Societal Contributions



## Strategic Issue 4: Societal Contributions

Strategic Objective 3 Support and strengthen communities and society (Community Support).

**OKR-39**

# OKR-39

Number of academic service projects aimed at agencies/communities that utilize research and innovations according to the concepts of SDG4 and SDG17

## The initiative "Fostering Environmental Awareness through STEAM Education to Address Challenges"

### Project Objectives

To promote lifelong learning and align with Khon Kaen University's strategy for educational and academic transformation, the primary objective of this training is to cultivate an awareness of advanced technology development while prioritizing environmental sustainability.

This initiative will contribute to sustainable development and address the Sustainable Development Goals (SDGs) that the university is committed to, thereby enhancing education within a global framework.

### Activities conducted within the project.

Presented by Mr. Hideki Shoji, Chairman of the Board, President, and CEO of TOYO SYSTEM Co., LTD.



### Cooperation Agencies



Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University



東洋システム株式会社  
TOYO SYSTEM CO., LTD.

TOYO SYSTEM CO., LTD., Japan



公益財団法人  
日本数学検定協会  
The Mathematics Certification Institute of Japan

The Mathematics Certification Institute of Japan (SUKEN Japan)



EDTS  
The Educational Foundation for Development of Thinking Skills

The Educational Foundation for Development of Thinking Skills

no	Day	Activity	Number of participants	Participant cohort
1	November 11, 2020	Industry-University Collaboration with TOYO SYSTEM, Japan	10	Students
2	May 25, 2021	Toyo System, Khon Kaen University, and Suken Collaboration Seminar on Corporate Social Responsibility	14	Educators and learners
3	March 15, 2022	Development of Environmental Awareness in Problem-Solving through STEAM Education	70	Students, educators, academic personnel, and interested parties.
4	August 9, 2022	Development of Environmental Awareness in Problem-Solving through STEAM Education	137	Students, educators, academic personnel, and interested parties.
5	March 24, 2023	To Achieve Carbon Neutrality: The Significance of Rechargeable Batteries and Human Resource Development	92	Students, educators, academic personnel, and interested parties.
6	February 20, 2667	To Achieve Carbon Neutrality: The Significance of Rechargeable Batteries and Human Resource Development	69	Students, educators, academic personnel, and interested parties.
7	March 12, 2024	Regional collaboration and initiatives for a carbon-neutral world (Innovation derived from minor insights)	88	Students, educators, academic personnel, and interested parties.
8	September 11, 2024	What we can contribute to the global environment	117	Students, university faculty, researchers, and other educational professionals.

Number of academic service projects aimed at agencies/communities that utilize research and innovations according to the concepts of SDG4 and SDG17

## The 17<sup>th</sup> National Open Class (TLSOA)



### Background and Significance

The National Open Class initiative, now in its 17th year, underscores the importance of enhancing teaching and learning processes to sustainably improve classroom quality. Initially, it integrated the Lesson Study innovation, a collaborative APEC Lesson Study project with Tsukuba University in Japan and an economic network, tailored for the Thai classroom context. This endeavor to advance teaching and learning for improved classroom quality commenced in 1999, achieving full integration into schools by 2006, and has persisted for over 20 years. This extensive research and development of educational innovations has illuminated the stark contrast between traditional teaching methods and the application of research and development in pedagogy. A sustained emphasis on classroom research and innovation development has unveiled the potential to cultivate our own innovations best suited to the Thai educational landscape: the "Thailand Lesson Study Incorporated with Open Approach (TLSOA)." This innovation is the culmination of years of dedicated effort, resulting in significant improvements in student learning and classroom quality that have garnered widespread recognition.

The 17th National Open Classroom Event was conducted in partnership with Khon Kaen University (Education and Academic Services Division), Institute for Research and Development in Teaching Profession for ASEAN, Center for Research in Mathematics Education, Centre of Excellence in Mathematics at Mahidol University, Thailand Society of Mathematics Education, The Educational Foundation for Development of Thinking Skills, Buddharamka Foundation, and the Equitable Education Fund (EEF). Now in its 17th year, this event seeks to disseminate the outcomes of implementing innovative open classroom education methods, specifically the Thailand lesson study integrated with an open approach. This year's open classroom event emphasized the development of various thinking skills at both primary and secondary levels, encompassing eight classes.

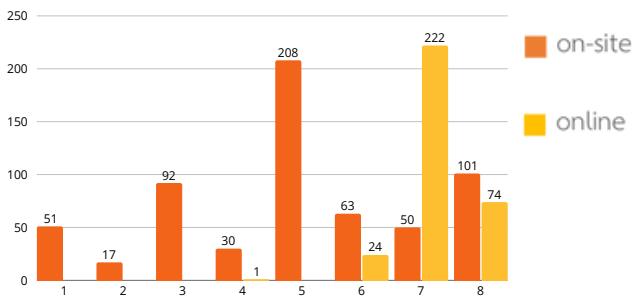
- Participants: 612 in-person and 321 virtual.



### Performance Report

- Duration of the project: March 23-24, 2024.

The graph illustrates the quantity of participants.



- Project Impacts

- Enhancing the quality of teaching and learning: Educators acquired new insights and methodologies, particularly in the implementation of the TLSOA innovation, which will facilitate more effective student learning.
- Teacher and educational personnel development: Educators have opportunities for professional growth through participation in diverse activities, including open classroom sessions, specialized lectures, and seminars, which contribute to the enhancement of their knowledge, competencies, and teaching skills.
- Building collaborative networks: The National Open Classroom offers a platform for educators, supervisors, school administrators, and academics nationwide to share knowledge and establish collaborative networks, thereby fostering ongoing educational development.

number	group	On-site	Online	together
1	Board members, executives, experts, and staff of the Institute.	51	0	51
2	Esteemed speakers and honored guests.	17	0	17
3	Faculty and staff at Khon Kaen University.	92	0	92
4	Network of Mathematical Education Associations	30	1	31
5	Teacher trainees from Khon Kaen University and its affiliated institutions.	208	0	208
6	Professional Development Initiative for Educators	63	24	87
7	Area/Teacher/Student	50	222	272
8	Director, Educators, Academic Personnel, and General Assembly	101	74	175
	together	612	321	933

# OKR-39

Number of academic service projects aimed at agencies/communities that utilize research and innovations according to the concepts of SDG4 and SDG17



## Background and Significance

Building on the longstanding diplomatic relations between the Russian Federation and the Kingdom of Thailand, Thailand Society of Mathematics Education, The Educational Foundation for Development of Thinking Skills, Institute for Research and Development in Teaching Profession for ASEAN, and Center for Research in Mathematics Education, Khon Kaen University, in collaboration with the Moscow Center for Continuous Mathematical Education, led by Associate Professor Ivan Vysotskiy, have jointly organized the Mathematics Festival Thailand. From this year onward, the Mathematics Festival Thailand has been formally incorporated into the Russia-Thai Roundtable (RTRT) on Cooperation in Education for Gifted and Talented Students and Research. This initiative is in line with the Royal Initiative of Her Royal Highness Princess Maha Chakri Sirindhorn during Her official visit to the Russian Federation in 2017, commemorating the 120th anniversary of diplomatic relations between Thailand and Russia.

### • Project Impacts

- Promoting innovative mathematics learning and skill development The Math Festival introduced enjoyable and intellectually challenging approaches to learning mathematics through diverse activities such as the Math Feast Olympiad, mathematics game stations, and special lectures. These activities helped stimulate interest and inspiration in learning mathematics, while fostering participants' problem-solving, analytical thinking, and collaboration skills.
- Enhancing the quality of mathematics teaching and learning The involvement of experts from the Russian Federation in designing and delivering the activities facilitated the transfer of contemporary and effective approaches to mathematics education. The event provided a valuable opportunity for teachers and lecturers to learn new techniques and methodologies that can be adapted and integrated into their own teaching practice.
- Advancing curriculum development and research in mathematics education The collaboration between Khon Kaen University and the Moscow Center for Continuous Mathematical Education in organizing the Math Festival is part of the ongoing APEC-Lesson Study Project. This initiative supports the development of up-to-date curricula and research in mathematics education that respond to learners' needs and emerging educational challenges.
- Building mathematics education networks The event served as a platform for administrators, faculty members, school students, teachers, parents, university students, and interested members of the public to meet, exchange ideas, and build collaborative networks in mathematics education. This has helped strengthen community engagement and shared responsibility in advancing the quality of mathematics education.

# The 5<sup>th</sup> Mathematics Festival in Thailand



## Performance Report

- Implementation date: 23 December 2023
- Participants: Approximately 500 participants, including school students, educational administrators, faculty members, university students, and members of the general public



# OKR-39

Number of academic service projects aimed at agencies/communities that utilize research and innovations according to the concepts of SDG4 and SDG17

## Workshop on Developmental Evaluation (DE) and Directions for Advancing the Area-Based Self-Improving Schools Movement in Khon Kaen Province



### Background and Significance

Khon Kaen University, through the Institute for Research and Development in Teaching Profession for ASEAN, is implementing the "Teacher and School Quality Movement: Area, Khon Kaen" (TSQA-Khon Kaen). The project is supported by the Office for the Development of Teachers and Educational Personnel and the Equitable Education Fund (EEF), with the aim of enhancing educational quality in Khon Kaen Province through participatory collaboration with multi-sectoral partners. As part of this initiative, a workshop on the use of Developmental Evaluation (DE) and on shaping the strategic direction for the area-based self-improving school movement was organized to strengthen planning, monitoring, and continuous improvement within the province.



### Performance Report

- Implementation period: 5 March – 28 June 2024
- Participants: 411 participants, including school administrators, university faculty members, educational supervisors, school teachers, and students
- Key outcome: Strengthened networks and partnerships with various organizations and agencies in Khon Kaen Province

### Objectives

- To build and strengthen collaboration among network partners in the development of education in Khon Kaen Province
- To set shared goals and action plans for driving educational development initiatives in the province
- To prepare stakeholders for the implementation of the project over the next three years

### Project Outputs

- Direct improvement of teaching and learning at both school and provincial levels
- Development of developmental evaluation tools to inform and refine provincial implementation plans
- Exchanges of experience and good practices in educational development among model schools

Activities associated with the project that were conducted in 2024.

number	date	activity	Number of participants
1	March 5, 2024	Consultation meeting on the Area-based Self-Improving School Movement Project, Khon Kaen Province (TSQA)	60
2	April 30, 2024	Operational workshop to drive the Area-based Self-Improving School Movement, Khon Kaen Province (TSQA)	87
3	May 24, 2024	Training workshop on the use of Developmental Evaluation (DE)	110
4	June 14, 2024	Meeting to review and validate the project plans and implementation progress	34
5	June 28, 2024	Knowledge-sharing forum hosted by model schools within the area	120



## Background and Significance

The PME Regional Conference is an initiative approved by the members of the International Group for the Psychology of Mathematics Education (PME) at its 40th Annual Conference, held in Hungary in 2016. Its aim is to support researchers from regions that are underrepresented within PME by enabling them to organize regional conferences in their own areas, with a view to strengthening networking both within and beyond the region. The first PME Regional Conference held after the COVID-19 situation took place at Khon Kaen University, Thailand, from 2–4 December 2023. The conference aimed to bring together mathematics educators from Cambodia, Lao PDR, Myanmar, and Vietnam (CLMV countries), as well as from the broader Southeast Asian region. The PME Regional Conference initiative, launched in 2016, seeks to support underrepresented regions in the field of mathematics education through the organization of regional meetings. The PME Regional Conference 2023 in Thailand, in collaboration with the CLMV countries, was approved during PME 44 in 2021 and marked the first event of its kind in this region. The conference was jointly organized by several institutions and supported by the International Programme Committee, with the goal of fostering a regional research community and creating opportunities for international networking.



## Performance Report

- A total of 149 mathematics education researchers from 14 countries participated in the conference.
  - There were 9 Research Reports, 15 Oral Communications, and 19 Poster Presentations, the majority of which were contributed by researchers from the CLMV region.
  - Implementation period: 2–4 December 2023.
- Project Impacts
- Exchange of Knowledge and Good Practices in Mathematics Education The PME Regional Conference 2023 served as a key platform for researchers, educators, and experts from 14 countries to exchange knowledge, ideas, and experiences in mathematics education—particularly on issues related to mathematical thinking skills in the digital era. The 49 research contributions presented in various formats reflected the diversity of topics and offered valuable insights for enhancing the teaching and learning of mathematics.



## Cooperation Agencies

 TSMEd Thailand Society of Mathematics Education (TSMEd)	 IRDTP Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University (IRDTP)
 CEM Centre of Excellence in Mathematics (CEM)	 CEPMART Center for Promotion of Mathematical Research of Thailand (CEPMART)
 IPST The Institute for the Promotion of Teaching Science and Technology (IPST)	
 CRME Center for Research in Mathematics Education (CRME)	 EDTS The Educational Foundation for Development of Thinking Skills (EDTS)

## Strategic Issue 9: Internationalization

**OKR**  
IRDTP for ASEAN

Institute for Research and  
Development in Teaching  
Profession for ASEAN

**2024**

**3**

## Strategic Issue 9: Internationalization

Strategic Objective 3 Support strategies  
to achieve higher World University  
Rankings.

**OKR-65**

# OKR-65

Number of Activities/Projects Promoting  
Khon Kaen University's Ranking by THE,  
QS Ranking, or CWTS Leiden

## 2024 KNUE - KKU Teacher Training: Reskill and Upskill to Enhance the Quality of Teacher Education in the Digital Era.



### Background and Significance

The UNESCO UNITWIN Program is an initiative supported by the United Nations Educational, Scientific and Cultural Organization (UNESCO) to enable Korea National University of Education (KNUE), Republic of Korea, to build partnerships and expand educational networks across the Asian region. The aim is to jointly enhance the quality of teacher education in order to achieve sustainable education development goals. The first 5-year phase of the project began in 2019, and it is now continuing into a second 5-year phase, running until 2028.

### objective

1. To establish a collaborative network for improving the quality of teaching and learning, as well as teacher professional development, with international partner institutions.
2. To jointly research and develop teaching and learning content that can be scaled up and adapted to each country's context, including revising training curricula to respond to social change and labour market demands.
3. To contribute to the achievement of equitable and inclusive education for all.

### Cooperation Agencies



### Implementation in 2024

1. Joint development of teaching and learning content/curricula
2. Training programs for teachers and educational personnel



### Performance Report

- Number of participants: 54 participants from 15 provinces across Thailand

#### 2024 KNUE - KKU Teacher Training

Training Participants	Participants
Researchers	1
Students	8
Lecturers	11
Teachers	32
Educational Supervisors	2
Total	54

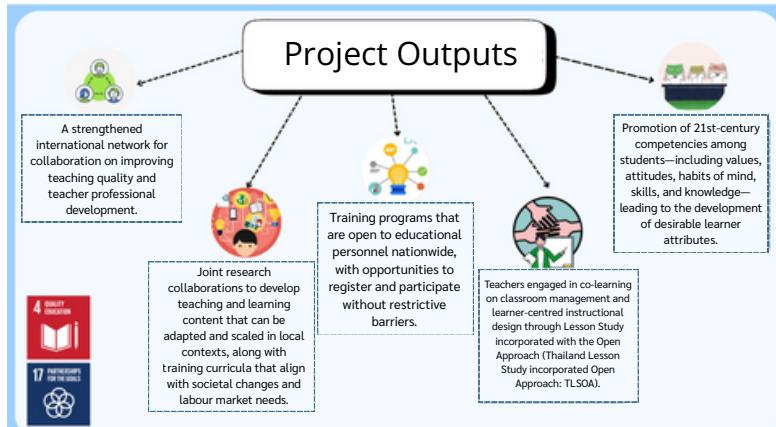


#### Participants hailing from 15 provinces.

Kalasin, Khon Kaen, Chaiyaphum, Nakhon Phanom, Nakhon Ratchasima, Nakhon Sawan, Buriram, Phitsanulok, Maha Sarakham, Roi Et, Lampang, Sakon Nakhon, Nong Khai, Udon Thani, Ubon Ratchathani

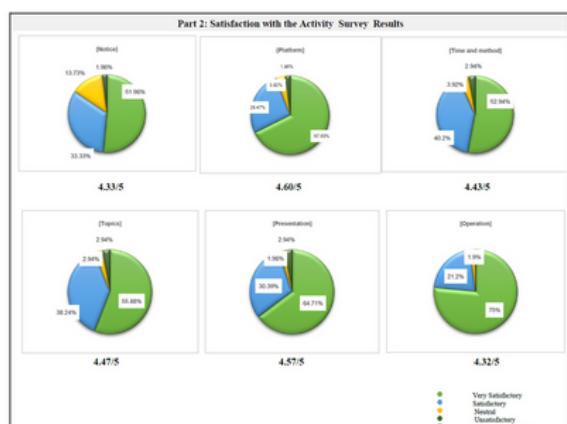


### Project Outputs



#### Examples of assessment outcomes from project participants.

- I acquired new skills and knowledge in implementing lesson plans collaboratively developed with the team in the classroom.
- I acquired knowledge about emerging technologies, particularly regarding the application of AI to enhance teaching efficacy.
- I acquired the skills to manage a classroom through a student-centered approach.



# OKR-65

Number of Activities/Projects Promoting  
Khon Kaen University's Ranking by THE,  
QS Ranking, or CWTS Leiden

## The 17<sup>th</sup> APEC-TSUKUBA International Conference under on topic "Online Workshops for Lesson Study 2.0: Unplugged Computational Thinking in APEC Economies".



### Background and Significance

This project, proposed jointly by Thailand and Japan, focuses on developing education to strengthen Computational Thinking (CT). In this context, CT refers to a problem-solving way of thinking that leverages Generative AI operating on natural language.

Since 2006, Japan and Thailand have been involved in the APEC Lesson Study project under the APEC Human Resources Development Working Group (HRDWG), addressing challenges related to APEC's educational networks and establishing the APEC Lesson Study Network. In addition, joint proposals with Chile (in 2019) and Malaysia (in 2020) led to the development of recommendations for CT curriculum reform in APEC in 2021, particularly in response to the COVID-19 crisis.

This workshop, organized by the University of Tsukuba, Japan, aims to promote educational activities in the APEC region to disseminate Computational Thinking at the primary level, with a focus on Unplugged CT (Computational Thinking without digital devices).

In collaboration with members of the education network, representatives from Japan, Chile, and Thailand—together with members from Indonesia and Malaysia—jointly developed the document “Unplugged Computational Thinking.” This first workshop uses that document as the core resource to demonstrate how to develop Computational Thinking in primary education both without computers (unplugged) and with computers. It also promotes Lesson Study in this area within the APEC region as a strategy to help bridge the digital divide.

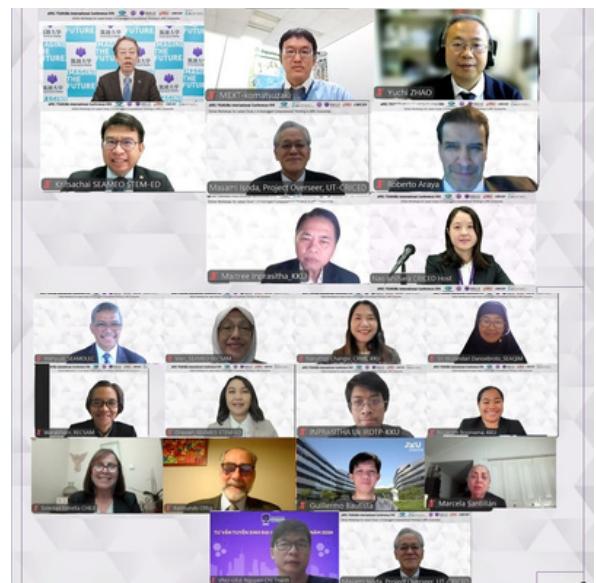
### objective

- To promote the development of Computational Thinking skills in APEC member economies.
- To do so through Lesson Study 2.0, with a particular emphasis on Unplugged Computational Thinking.
- To use the jointly developed “Guidebook for Unplugged Computational Thinking” as a primary tool for promotion and implementation.
- Project Impacts
  - Development of learning materials Promoted the use of the “Guidebook for Unplugged Computational Thinking” as a key learning resource to foster CT skills through activities that do not require digital devices.
  - Application at the primary education level Emphasized the integration of Computational Thinking into primary education, laying a critical foundation for more advanced skills in later stages of learning.
  - Engagement of teachers and scholars Encouraged active participation of teachers and academic experts in presenting, sharing, and exchanging knowledge and practices related to Computational Thinking.



### Performance Report

- Implementation date: 18 April 2024
- Participants: 29 APEC specialists and government officials
- Economies represented (12): Japan, Thailand, Chile, Malaysia, Indonesia, Viet Nam, the Philippines, Brunei Darussalam, Russian Federation, Peru, Mexico, and the United States of America





### Background and Significance

The UNESCO UNITWIN Program is an initiative supported by the United Nations Educational, Scientific and Cultural Organization (UNESCO) to enable the Korea National University of Education (KNUE), Republic of Korea, to build partnerships and expand educational networks across the Asian region.

In 2024, the Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, participated in:

- The 8th UNESCO UNITWIN International Conference on Quality Teacher Education 2023
- The 2023 UNITWIN Cooperation Programme for Quality Teacher Training

Both events were hosted at Korea National University of Education, Republic of Korea.



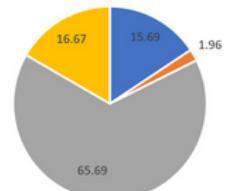
### Performance Report

- Implementation period: 30 October – 4 November 2024
- Number of participants: 102

- Participants' group

no	Purpose for Participation	Number of people	Expressed as a percentage
1	Speaker	16	15.69
2	Moderator	2	1.96
3	Observer	67	65.69
4	etc.	17	16.67
Total		102	100

Purpose for Participation



■ Speaker ■ Moderator ■ Observer ■ etc.



### Cooperation Agencies

#### UNESCO-KNUE: UNITWIN Program



- Korea, Korea National University of Education
- Laos, Souphanouvong University
- Vietnam, VNU-University of Education
- Indonesia, Indonesia University of Education
- Thailand, Khon Kaen University
- Thailand, Mahidol University, Kanchanaburi Campus (2021)

➤ University of the Philippines (UP), Quezon City, Philippines (2022)

- Project Impacts
- Enhancing the quality of teacher education Participation in the conference and training program provided opportunities to learn about best practices and new innovations in teacher education from various countries, particularly from KNUE, a leading institution in teacher education. The exchange of knowledge and experience will contribute to the improvement of curricula and the modernization of teaching and learning, better aligning them with the needs of teachers in the 21st century.
- Strengthening academic collaboration networks The events served as a platform to build relationships and academic networks with institutions and experts in teacher education worldwide. This will open up opportunities for student and staff exchanges, joint research, and collaborative academic initiatives in the future. Such collaboration will help strengthen the academic capacity of the Institute and positively impact the development of teacher education in Thailand and the ASEAN region.
- Dissemination and recognition of academic work Presenting academic work at an international conference enabled the Institute to share its knowledge and experiences on a global stage, thereby enhancing its reputation and credibility. Recognition and positive feedback from conference participants will serve as motivation for the Institute to continue advancing and innovating in teacher education.
- Promoting collaboration between educational institutions and government agencies Participation in these events on behalf of Khon Kaen University demonstrates the Institute's commitment to supporting national education development policies. It also reinforces collaboration with government agencies in efforts to raise the quality of teacher education.



## Background and Significance

Since 2018, the Teachers' Council of Thailand Secretariat Office, the National Institute for School Teachers and Staff Development (NITS), Japan, the National Institute for the Development of Teachers, Faculty Staff and Educational Personnel (NIDTEP), and the Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, have jointly implemented a capacity development project for education professionals.

This collaborative project aims to enhance the competencies of those in the teaching profession in line with the "Thailand 4.0" master plan and the National Education Plan, with a focus on strengthening Thailand's human resource development and global competitiveness.

Recognizing the importance of this mission, the four partner organizations agreed to extend the collaboration into a second 5-year phase (2023–2027). In 2023, the 4th Cohort of the Capacity Development Program for Education Professionals was implemented, with the project divided into five phases as follows:

- Phase 1: Knowledge development and formulation of School Improvement Plans, led by the Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University.



- Phase 2: First implementation cycle of applying the acquired knowledge in schools, carried out by education professionals in collaboration with the four partner organizations.



- Project Impacts
- Innovation in teaching and learning The project adapted the TLSOA (Thailand Lesson Study incorporated Open Approach), originally developed in Japan, to suit the Thai context and applied it in real classroom practice. This led to a shift towards more learner-centred teaching approaches. Classroom observations of Lesson Study in Japan also broadened participants' perspectives and informed concrete improvements in their instructional practices.
- Strengthening school collaboration networks The project fostered collaborative networks among 17 schools across the country, promoting joint work and reinforcing Professional Learning Communities (PLCs). This has helped create a more robust culture of continuous learning and shared professional growth among education professionals.



## Performance Report

- Implementation period: 28 February 2023 – 26 April 2024
- Participants: 43 participants from 17 educational institutions nationwide
- Implementing agencies:  
Institute for Research and Development in Teaching Profession for ASEAN (IRDTP) in collaboration with:
  - Teachers' Council of Thailand (Khurusapha)
  - National Institute for the Development of Teachers, Faculty Staff and Educational Personnel (NIDTEP)
  - National Institute for School Teachers and Staff Development (NITS), Japan

## Cooperation Agencies



Khurusapha

- Phase 3: Study visit to observe model educational innovations in Japan, organized by the National Institute for School Teachers and Staff Development (NITS), Japan.



- Phase 4: Second implementation cycle of applying the acquired knowledge in schools, led by education professionals and the four partner organizations.
- Phase 5: Knowledge-sharing and scaling-up forum, organized by the National Institute for the Development of Teachers, Faculty Staff and Educational Personnel (NIDTEP).



## Strategic Issue 9: Internationalization



## Strategic Issue 9: Internationalization

Strategic Objective 4 Foster internationalization of faculty, staff, students, and campus environment (International environment) and enhance the global visibility of Khon Kaen University.

**OKR-67**

## Number of Non-Degree Students, Both Outbound and Inbound, at the Undergraduate and Graduate Levels, Increased from the Previous Year

### Operations in 2024

no	date	activity	Number of exchange students and faculty.
1	February 18-21, 2024	A group of faculty members and graduate students from Naruto University of Education in Japan visited and engaged in activities with our students.	5
2	February 16 March 4, 2024	Student exchange program for teaching practice and engagement in activities at Khon Kaen University Demonstration School, Secondary Education Division (Modindaeng).	2
3	August 31 - September 4, 2024	Student exchange initiative from Toho University	18
4	September 15-30, 2024	Student exchange initiative from the University of Tsukuba.	2
5	March 25-27, 2024	Specialized lectures and workshops for graduate students and student teachers in schools implementing the TLSOA innovation, presented by Prof. Hideyo Emori, Otani University for Research and International Studies, Japan.	1

### Cooperation Agencies



Thailand



Japan



# OKR-67

Number of Non-Degree Students, Both Outbound and Inbound, at the Undergraduate and Graduate Levels, Increased from the Previous Year

## Faculty and Graduate Student Visit from Naruto University of Education, Japan: Collaboration and activities with KKU students.



### Background and Significance

Under the collaboration between Institute for Research and Development in Teaching Profession for ASEAN, Center for Research in Mathematics Education (CRME), Khon Kaen University, and Naruto University of Education (NUE), Japan, activities were implemented within the project entitled “Investigative Researches on the Development of Overseas Training to Raise Teachers with Global Perspectives.”

The core activity involved the joint development of lesson plans by student teachers from Naruto University of Education and Khon Kaen University. These lesson plans were then implemented in real classroom settings in Thailand, followed by joint reflection and discussion on the outcomes.

### objective

To exchange academic knowledge, promote the development of the teaching profession in Thailand, and build collaborative networks in teaching, research, and the professional development of mathematics education teachers both domestically and internationally.

### Cooperation Agencies



#### • Project Impacts

- Developing mathematics student teachers toward internationalization. The project enhanced the international competencies of mathematics student teachers at Khon Kaen University by providing opportunities to work collaboratively with peers from overseas. Through joint lesson planning and actual classroom implementation at Ban Chonnabot Community School, students were able to:
  - Exchange knowledge and experiences in teaching mathematics across different educational contexts.
  - Develop skills in adaptation, teamwork, and cross-cultural communication.
  - These competencies are essential for teachers in the modern era and contribute to their growth as globally minded professionals.

#### • Promoting cross-cultural understanding and relationships

- The visit and joint activities by Japanese faculty members and students with Thai students and staff helped to deepen mutual understanding and strengthen cross-cultural relations between the two countries. Visits to the Art and Culture Center and the Treasury Museum further enabled the Japanese participants to learn about the history, art, and culture of Northeastern Thailand. This collaboration also reinforced the relationship between Khon Kaen University (KKU) and Naruto University of Education (NUE) as leading institutions in their respective countries. Ongoing cooperation in teaching, research, and teacher professional development will provide long-term benefits for both institutions and may lead to broader forms of collaboration in the future.



### Performance Report

- Implementation period: 18 – 21 February 2024
- Participants from Naruto University of Education (Japan): 5 persons
  - Prof. Dr. Miyo AKITA
  - Assoc. Prof. Dr. Toru HAYATA
  - Mr. Tomoya EZOE (Graduate student)
  - Ms. Ikumi OZAWA (Graduate student)
  - Mr. Haruki KIMURA (Graduate student)
- Participants from Khon Kaen University (Thailand):
  - Assoc. Prof. Dr. Maitree Inprasitha (Senior Researcher, IRDTP, KKU)
  - Assoc. Prof. Jumpon RAJCHAVIJIT (Expert, IRDTP, KKU)
  - Faculty members and graduate students in Mathematics Education, Faculty of Education
- Participants from Ban Chonnabot Community School, Khon Kaen Province:
  - Deputy Director Mantanakorn Phoonkhunhot
  - Ms. Pornkot Korawikchayut (Grade 1 Teacher)
  - Ms. Chutima Suwannalun (Grade 4 Teacher)
- Participant from the Office of Khon Kaen Primary Educational Service Area 2:
  - Educational Supervisor Kusol Chapanya

# OKR-67

Number of Non-Degree Students, Both Outbound and Inbound, at the Undergraduate and Graduate Levels, Increased from the Previous Year

## Student exchange program for pedagogical practice and engagement in activities at Khon Kaen University Demonstration School, Secondary Education Division (Modindaeng).



### Background and Significance

Khon Kaen University (KKU) and the University of Tsukuba (UT), Japan, have long collaborated to strengthen academic excellence and enhance institutional capacity. This cooperation aims to promote academic collaboration for mutual educational benefits and to foster international relations through the exchange of faculty, educational personnel, students, information resources, and other academic activities.

The Institute for Research and Development in Teaching Profession for ASEAN (IRDTP) and the Center for Research on International Cooperation in Educational Development (CRICED), University of Tsukuba—based at IRDTP, Khon Kaen University—serve as key support and coordination units in driving this collaboration.

To further elevate academic cooperation in student exchange and to provide students with opportunities to learn about teacher professional development and educational practices in the field of Japanese language education, the student exchange program with the University of Tsukuba was implemented.

#### • Outcomes of the Exchange Program

1. The students gained practical experience in teaching Japanese as a foreign language to Thai students, whose classroom culture and learning environment differ from those in Japan.
2. The students practiced independently designing their own lesson plans for Japanese language teaching.
3. The students learned about assessment processes in Japanese language courses and observed that teaching and assessment focus not only on grammar and vocabulary but also on imparting knowledge of Japanese culture.
4. The students acquired guidelines for designing lesson plans for learners who study Japanese as a second language.
5. The students engaged in cultural exchange with Khon Kaen University students, deepening mutual understanding between cultures.
6. The Institute gained insights on how to further improve and enhance the effectiveness of the program by developing long-term plans with partner schools. This will enable incoming exchange students to better prepare and plan lessons that align with the curriculum and school context in Thailand.
7. The Institute also identified approaches for preparing essential information related to daily life for incoming international students, to support their pre-departure preparation before participating in the exchange program in Thailand.



### Performance Report

- Implementation period: 16 February 2024 – 4 March 2024
- Participants from the University of Tsukuba (Japan): 2 students
  - Ms. Asaki UCHIDA, 2nd-year undergraduate student, College of Education, School of Human Sciences
  - Ms. NGUYEN THI BOI TRAM, 1st-year undergraduate student, College of Japanese Language and Culture, School of Humanities and Culture

### Cooperation Agencies



筑波大学  
University of Tsukuba



Meeting with IRDTP executives to summarize the program





### Background and Significance

Khon Kaen University, through the Institute for Research and Development in Teaching Profession for ASEAN, has maintained an academic collaboration with Toho University, Japan, since 2018. This partnership focuses on strengthening and promoting academic cooperation through the exchange of faculty, educational personnel, and students, with the aim of generating educational benefits and fostering closer relations between the two universities.

In alignment with these goals, the Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, organized a cultural exchange program between faculty members and students from Khon Kaen University and Toho University, Japan.

- Project activities.
- 1. Workshop: "Comparing the Biodiversity between Thailand and Japan" conducted by a team of experts from Toho University.
- 2. Classroom Observation: Observation of a Grade 2 science class at Ban Thum (Thum Prachanukhro) School, Khon Kaen Province.
- 3. STEM Learning Activities: Implementation of STEM learning activities for upper primary students at Ban Thum (Thum Prachanukhro) School, led by students from Toho University.



- Project Impacts
- Enhancing knowledge of biodiversity: A workshop entitled "Comparing the Biodiversity between Thailand and Japan," conducted by a team of lecturers from Toho University, significantly improved participants' understanding of biodiversity in both nations. Attendees included students, educators, and educational professionals from the Institute for Research and Development of Teacher Professionalism for ASEAN.
- Learning and Observing Science Teaching: Participating in an observation class of a second-grade science course at Ban Thum (Thum Prachanukhro) School afforded Toho University students the opportunity to learn about and observe science teaching methodologies within a Thai educational context, which may differ from those employed in Japan.



### Performance Report



- Implementation period: 31 August 2024 – 4 September 2024
- Participants: From Toho University (Japan): 18 participants

- Ms. Miharu Yamazaki, Toho University
- 2. Professor Dr. Toshinobu Hatanaka, Toho University
- 3. Professor Dr. Daishi Yamazaki, Toho University
- 4. Professor Dr. Tsukasa Waki, Toho University
- 5. Ms. Ayane Nagamine, Toho University
- 6. Ms. Manami Nishikawa, Toho University
- 7. Ms. Tamami Nemoto, Toho University
- 8. Ms. Yuki Matsumura, Toho University
- 9. Ms. Nanaka Kubo, Toho University
- 10. Mr. Kensuke KOGANEZAWA, Toho University
- 11. Mr. Taisei Tsutsui, Toho University
- 12. Mr. Hope is attending Toho University.
- 13. Mr. Hironari Inoue, Toho University
- 14. Mr. Rikuto Imai, Toho University
- 15. Mr. Ryunosuke Saito, Toho University
- 16. Mr. Shota Takei, Toho University
- 17. Ms. Honoka Miyamoto, Toho University
- 18. Ms. Reona Yoshida, Toho University

- From Khon Kaen University and partner schools: 80 participants, including:
  - Students and educational personnel from Institute for Research and Development in Teaching Profession for ASEAN
  - Teachers and Grade 2 students from Ban Thum (Thum Prachanukhro) School, Khon Kaen Province

# OKR-67

Number of Non-Degree Students, Both Outbound and Inbound, at the Undergraduate and Graduate Levels, Increased from the Previous Year

# Student exchange initiative from the University of Tsukuba.



## Background and Significance

Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, in collaboration with the University of Tsukuba, Japan, has expanded its educational cooperation and strengthened international relations through student exchange programs.

This exchange aims to promote learning and the development of the teaching profession, particularly in the field of Japanese language education. Students from the University of Tsukuba participate in the program at Institute for Research and Development in Teaching Profession for ASEAN and at Khon Kaen University Demonstration School (Modindang), Secondary Division.

In addition to academic and pedagogical learning, the exchange students also engage in cultural exchange activities with first-year students in the Japanese Language Education program, Faculty of Education, Khon Kaen University. These activities provide KKU students with the opportunity to learn about Japanese culture and better understand language use in authentic contexts directly from native Japanese speakers. This, in turn, enhances their Japanese language teaching skills and better prepares them to become effective Japanese language teachers in the future.

- Project Impacts
- Advancement of the teaching profession and educational practice: The project contributes to teacher professional development by providing students from the University of Tsukuba with the opportunity to learn and participate in activities at the Institute for Research and Development in Teaching Profession for ASEAN and at Khon Kaen University Demonstration School (Modindang), Secondary Division. First-hand experience within the Thai education context helps Japanese students understand the challenges and opportunities in educational development within the ASEAN region.
- Enhancement of Japanese language teaching and learning: The project focuses on strengthening Japanese language education, a field with growing demand in Thailand. Exchange students from Japan share up-to-date knowledge and teaching techniques in Japanese language education with Thai students and teachers, helping to improve the overall quality of Japanese language teaching in the country.
- Creating opportunities for cultural and language learning: By engaging in cultural exchange activities with first-year students in the Japanese Language Education program at Khon Kaen University, Thai students gain valuable exposure to Japanese culture and practice using Japanese with native speakers. This experience boosts their confidence in communication and better prepares them to become high-quality Japanese language teachers.



## Performance Report

- Implementation period: 15 – 30 September 2024
- Participants from the University of Tsukuba (Japan): 2 students
  - Ms. Kumiko Yamada , College of Knowledge and Library Sciences, School of Informatics
  - Ms. Keiko ,College of Education, School of Human Sciences
- Participants from Khon Kaen University (Thailand): Institute for Research and Development in Teaching Profession for ASEAN
  - Asst. Prof. Dr. Phongthanat Sae-joo
  - Assoc. Prof. Dr. Maitree Inprasitha , and the executive team
  - First-year students, Japanese Language Education Program, Faculty of Education



# OKR-67

Number of Non-Degree Students, Both Outbound and Inbound, at the Undergraduate and Graduate Levels, Increased from the Previous Year

**Special lectures and workshops for graduate students and student teachers in schools implementing the TLSOA innovation, presented by Prof. Hideyo Emori, Otani University for Research and International Studies, Japan.**

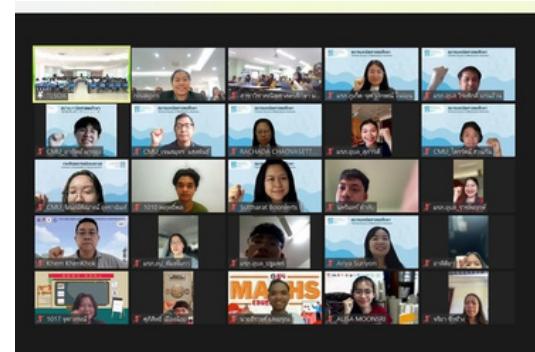


## Background



The Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, co-organized a special lecture and workshop for graduate students and student teachers from schools implementing the TLSOA innovation. The program was led by Prof. Hideyo Emori from Otani University, Japan.

More than 200 student teachers from institutions nationwide, over 50 graduate students in Mathematics Education from the Faculty of Education, and more than 20 network lecturers under the Mathematics Education Association participated in the event.



## Performance Report

- Implementation period: 25 – 27 March 2024
- Speaker: 1 invited expert
  - 1. Prof. Hideyo Emori, Otani University for Research and International, Japan
- Participants in the special lecture and workshop:
  - 200 student teachers in school practicum (from various institutions across the country)
  - 50 graduate students in Mathematics Education, Faculty of Education, Khon Kaen University
  - 20 network lecturers under the Mathematics Education Association
- Project Impacts
- Enhancing knowledge and skills in TLSOA innovation: The special lecture and workshop strengthened participants' understanding of the TLSOA (Teaching and Learning Study Organization Approach) innovation, a pedagogical approach that emphasizes student engagement and the development of higher-order thinking skills. Learning directly from Prof. Hideyo Emori, an expert from Otani University, Japan, enables participants to more effectively apply TLSOA in their own teaching practices.
- Promoting research and development in mathematics education: Participation by graduate students in Mathematics Education has helped stimulate interest in research and innovation in mathematics education, particularly in studying the effects of implementing TLSOA in different contexts. In addition, the opportunity to exchange knowledge and experiences with network lecturers under the Mathematics Education Association has contributed to building a stronger research and development network in mathematics education.



# APPENDICES

## Project/Activity Details by Strategic Issue



INSTITUTE FOR RESEARCH AND DEVELOPMENT IN  
TEACHING PROFESSION FOR ASEAN

**Khon Kaen University, Thailand**

# Strategic Issue 2: Research Transformation

**Strategic Objective 2: Support the Development of Large-Scale Research Projects that Operate as Research Teams and Work Continuously (Research Programs/Clusters)**

**OKR16:** Amount of Research Budget (Million Baht)

1. Support researchers in forming research teams (Research programs/clusters).
2. Promote the development of advanced research projects that build towards innovation, creating high value and transformative impact in the economic, community, and social aspects.



## Teacher and School Quality Area : TSQA , Khon Kaen Province

Khon Kaen University, through Institute for Research and Development in Teaching Profession for ASEAN, is implementing the Area-Based Self-Improving School Process (TSQA) project in Khon Kaen province, supported by the Equitable Education Fund (EEF). This aligns with the strategic emphasis on delivering value to the main pillars of the community through academic services aimed at benefitting society (Societal Contributions) and the strategic theme of collaboration for sustainable community and social development (Sustainable Development Goals: SDGs), aiming to enhance the economy and sustainable development. The goal is to become a model university for societal contribution, targeting the development goal OKR-41, which focuses on the number of academic service projects aiming at enabling agencies/communities to utilize research and innovations according to the concepts of (SDG4) and (SDG17). This is pursued through a participatory quality improvement process involving network partners in Khon Kaen province, where the main support comes from the schools' affiliated or supervising agencies in terms of resources, budget, and management. This supports the enhancement of quality, development extension, and sustainability with two key mechanisms:

1. Area-based mechanism: district/province level (Meso)
2. School-level mechanism (Micro)

The network partner organizations driving the development of educational quality in Khon Kaen province at all levels, which are involved in the driving mechanism through their roles and responsibilities, actively participating and supporting the TSQA project consist of 16 sectors, including:

- 1.Khon Kaen Province
- 2.Khon Kaen Provincial Administrative Organization
- 3.Khon Kaen Municipality
- 4.Khon Kaen Chamber of Commerce
- 5.Khon Kaen Provincial Public Health Office
- 6.Khon Kaen Provincial Social Development and Human Security Office
- 7.Khon Kaen Provincial Local Administration Office
- 8.Khon Kaen Provincial Education Office
- 9.Khon Kaen Primary Educational Service Area Office 1
- 10.Khon Kaen Primary Educational Service Area Office 2
- 11.Khon Kaen Primary Educational Service Area Office 3
- 12.Khon Kaen Primary Educational Service Area Office 4
- 13.Khon Kaen Primary Educational Service Area Office 5
- 14.Khon Kaen Secondary Educational Service Area Office
- 15.Ban Ped Subdistrict Municipality
- 16.Khon Kaen University

Additionally, there are 100 schools within Khon Kaen province that are interested in participating in the project



## OKR16 Amount of Research Budget (Million Baht)

By employing a participatory process involving all sectors in the province, target groups and directions for collaborative action are determined. During the initial phase (Preparation stage), analysis of existing works and resources related to educational development in the province is conducted to design and formulate a strategic plan. This plan serves as the province's mechanism for promoting an educational or learning system that caters to all children and youth in the area. The process involves studying existing resources, gathering input from stakeholders in the area to improve school quality, and jointly designing an efficient approach for driving educational development in the area/province. It is crucial that all sectors in the province have a shared understanding to reduce redundancy and strengthen mechanisms appropriate for the province's sustainability. This aligns with the focus expected by EEF (Equitable Education Fund) for the period 2024-2026.



Khon Kaen University, through Institute for Research and Development in Teaching Profession for ASEAN, has received support for the implementation of the Teacher and School Quality Movement: Area (TSQM-A) Khon Kaen project. This project is supported by the Bureau of Teacher and Educational Personnel Development, under the Equitable Education Fund (EEF). The project aims to facilitate the collaborative development of school and educational quality among network partners in Khon Kaen Province. The 4th activity was organized through a workshop on the use of Developmental Evaluation (DE) processes and the direction of the Teacher and School Quality Movement: Area (TSQM-A) Khon Kaen on Friday, May 24, 2024, at Meeting Room 2201, Building 2, Institute for Research and Development of Teacher Profession for ASEAN.



## OKR16 Amount of Research Budget (Million Baht)

Representatives from relevant agencies in Khon Kaen Province and target schools in the first year of development were invited, including the Khon Kaen Provincial Education Office, Khon Kaen Secondary Educational Service Area Office, Khon Kaen Primary Educational Service Area Offices 1-5, Khon Kaen Provincial Administrative Organization, and Khon Kaen Municipality. A total of 97 target schools were invited to participate, acknowledge the project's objectives, and understand the concept of the self-improving school movement. Developmental Evaluation (DE) was used as a framework for developing a strategic plan for Khon Kaen Province in collaboration with relevant agencies and target schools. Executives and experts from Institute for Research and Development in Teaching Profession for ASEAN welcomed the participants and provided a presentation on the use of Developmental Evaluation by Associate Professor Dr. Maitree Inprasitha, Vice President for Education and Academic Services, Acting Director of Institute for Research and Development in Teaching Profession for ASEAN. Information was also provided on the organizational structure and roles and responsibilities in driving the project in Khon Kaen. A workshop on the use of Developmental Evaluation (DE) was conducted for relevant agencies by Assistant Professor Dr. Narumon Changsri and Assistant Professor Khem Kenkok to prepare core change agent educational supervisors from relevant agencies. They were tasked with applying the concept and process of Developmental Evaluation (DE) to define goals, Key Result Areas (KRAs), and Key Performance Indicators (KPIs) for their work and to develop an Action Plan in collaboration with the target schools under their jurisdiction in the first year.



Khon Kaen University, through Institute for Research and Development in Teaching Profession for ASEAN, has received support for the implementation of the Teacher and School Quality Movement: Area (TSQM-A) Khon Kaen project. This project is supported by the Bureau of Teacher and Educational Personnel Development, under the Equitable Education Fund (EEF). The project aims to facilitate the collaborative development of school and educational quality among network partners in Khon Kaen Province. The 5th activity was organized through a meeting to jointly develop a plan for the project and consider a 3-year (academic year 2024-2026) work plan, as well as to consider the Memorandum of Understanding (MOU) of network partners in the Khon Kaen area on Friday, June 14, 2024, from 09:00 AM to 12:00 PM at Meeting Room 2201, 2nd Floor, Institute for Research and Development in Teaching Profession for ASEAN.

## OKR16 Amount of Research Budget (Million Baht)

Representatives from relevant agencies in Khon Kaen Province were invited, including the Head of the Provincial Office, the Khon Kaen Provincial Education Office, Khon Kaen Secondary Educational Service Area Office, Khon Kaen Primary Educational Service Area Offices 1-5, Khon Kaen Provincial Administrative Organization, and Khon Kaen Municipality, to jointly consider the development of the plan and the implementation of the project. Executives and experts from Institute for Research and Development in Teaching Profession for ASEAN welcomed the participants, led by Associate Professor Dr. Maitree Inprasitha, Vice President for Education and Academic Services, Acting Director of Institute for Research and Development in Teaching Profession for ASEAN.



Khon Kaen University, through Institute for Research and Development in Teaching Profession for ASEAN, has received support for the implementation of the Teacher and School Quality Movement: Area (TSQM-A) Khon Kaen project. This project is supported by the Bureau of Teacher and Educational Personnel Development, under the Equitable Education Fund (EEF). The project aims to facilitate the collaborative development of school and educational quality among network partners in Khon Kaen Province. The 6th activity was organized through a knowledge-sharing forum in the model schools area to expand the implementation of the Teacher and School Quality Movement: Area (TSQM-A) Khon Kaen on Friday, June 28, 2024, from 09:30 AM to 12:30 PM online via Zoom meeting. Assistant Professor Dr. Phongthanat Sae-joo, Acting Director of Institute for Research and Development in Teaching Profession for ASEAN, gave the opening remarks.



## OKR16 Amount of Research Budget (Million Baht)

The event included a special lecture on the topic of "Guidelines for Driving the Teacher and School Quality Movement: Area (TSQM-A) Khon Kaen" by Dr. Udom Wongsing, Director of the Bureau of Teacher and Educational Personnel Development, Equitable Education Fund (EEF), and a special lecture on the topic of "Resources and Directions for Driving the Teacher and School Quality Movement: Area (TSQM-A) Khon Kaen" by Associate Professor Dr. Maitree Inprasitha, Head of the Teacher and School Quality Movement: Area (TSQM-A) Khon Kaen project. The event also featured guest speakers from model schools who shared their experiences in driving school resources in Khon Kaen Province, self-improving schools (TSQP), and exchanged views on the outcomes for the development of learners, teachers, school administrators, communities, and parents in driving school resources in Khon Kaen Province, self-improving schools (TSQP) in 4 topics:

1. The process of developing teaching and learning by teachers at the classroom level, which is Active Learning, extended to other subjects, by Mr. Santi Mungmai, Director of Ban Thum School (Thum Prachanukroh).
2. The use of the Quality Learning Information System (Q-info) by administrators and teachers to benefit student development and enable collaboration with parents to provide assistance to students, by Ms. Chalida Sottimai, a teacher at Ban Bueng Niam Bueng Khrai Noon Tha Hin School.
3. The topic of creating participation in educational development and networks through Open-class, by Ms. Philailak Phengwongsa, a teacher at Khu Kham Phitthayasan School.
4. The topic of guidelines for using the TSOA development cycle in developing performance agreements (PA), by Dr. Thanyaporn Luangthong Ratchapa, Director of Nong Toom Nong Ngu Lueam School. Associate Professor Chumpon Ratchawichit, Advisor on Service and Training, and Ms. Pornpimon Thaksaworabut, an expert at the Institute, served as moderators. More than 120 people from target schools interested in developing education in Khon Kaen Province participated online.



## **Coaching Training Project for Network Schools Using the Transformative Lesson Study incorporated with Open Approach (TLSOA) Innovation**

Supervision, Monitoring, and Coaching of TLSOA Innovation Network Schools at Phra Tamnak Suan Kularb School on Tuesday, August 20, 2024

On this occasion, Associate Professor Dr. Maitree Inprasitha, a highly capable research from Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, Chairman of the Board of the Education for Thinking Skills Development Foundation, and President of the Mathematical Association of Thailand, honored the event by observing the classroom. Also in attendance were Assistant Professor Dr. Narumon Changsri, Director of Center for Research in Mathematics Education; Dr. Nisakorn Boonsena, and Dr. Chanika Senawongsa, lecturers in Mathematics Education, Faculty of Education, Khon Kaen University, along with researchers from Center for Research in Mathematics Education, Khon Kaen University. They collaborated with the school's administration, teachers, and classroom study teams to observe teaching and learning using the Classroom Innovation with Open Approach (Thailand Lesson Study incorporated with Open Approach: TLSOA) method and reflect on the results together. There were three classrooms involved:

- Class 1: Activity on "Fun Amusement Park," learning unit on the sequence of numbers, Grade 1 level. Taught by Ms. Suchinna Pattanasarn, a student teacher in Mathematics Education.
- Class 2: Activity on "How Many Cookies Are Left?" learning unit on thinking about calculations, Grade 2 level. Taught by Ms. Sirinat Boonraksa, a student teacher in Mathematics Education.
- Class 3: Activity on "Running Exercise," learning unit on vertical multiplication, Grade 3 level. Taught by Mr. Warawut Seepaenglert, a student teacher in Mathematics Education.

After observing the classes in the morning, the final session involved reflecting on the results with the school director, administrators, and the school's classroom study team. They also exchanged knowledge to improve the quality of classroom instruction.



## OKR16 Amount of Research Budget (Million Baht)

Supervision, Monitoring, and Coaching of TLSOA Innovation Network Schools at Vajiravudh College on Wednesday, August 21, 2024

In the initial phase, Dr. Thanawit Jindapradit, Deputy Commandant of Vajiravudh College in the Academic Department, administrators, and teachers welcomed the team and discussed the supervision and monitoring of student teachers. Associate Professor Dr. Maitree Inprasitha, a highly capable researcher from Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, Chairman of the Board of the Education for Thinking Skills Development Foundation, and President of the Mathematical Association of Thailand, honored the event by observing the classroom. Also in attendance were Assistant Professor Dr. Narumon Changsri, Director of Center for Research in Mathematics Education; Dr. Nisakorn Boonsena, and Dr. Chanika Senawongsa, lecturers in Mathematics Education, Faculty of Education, Khon Kaen University, along with researchers from Center for Research in Mathematics Education, Khon Kaen University. They collaborated with the school's administration, teachers, and classroom study teams. Mrs. Thitima An-ooaree, Director of Academic Affairs for the Secondary Level; Assoc. Prof. Patcharee Wongcharatreesri, Director of Academic Affairs for the Primary Level; Dr. Nipaporn Kulssomboon, Director of Organizational Development and Planning; Ms. Monthip Jarupun, Head of the Mathematics Department and Mentor Teacher for Mathayom 1 (Grade 7); and Ms. Tatiya Muya, Primary Grade Teacher and Mentor Teacher for Prathom 4 (Grade 4) observed teaching and learning using the Classroom Innovation with Open Approach (Thailand Lesson Study incorporated with Open Approach: TLSOA) method and reflect on the results together. There were two classrooms involved:

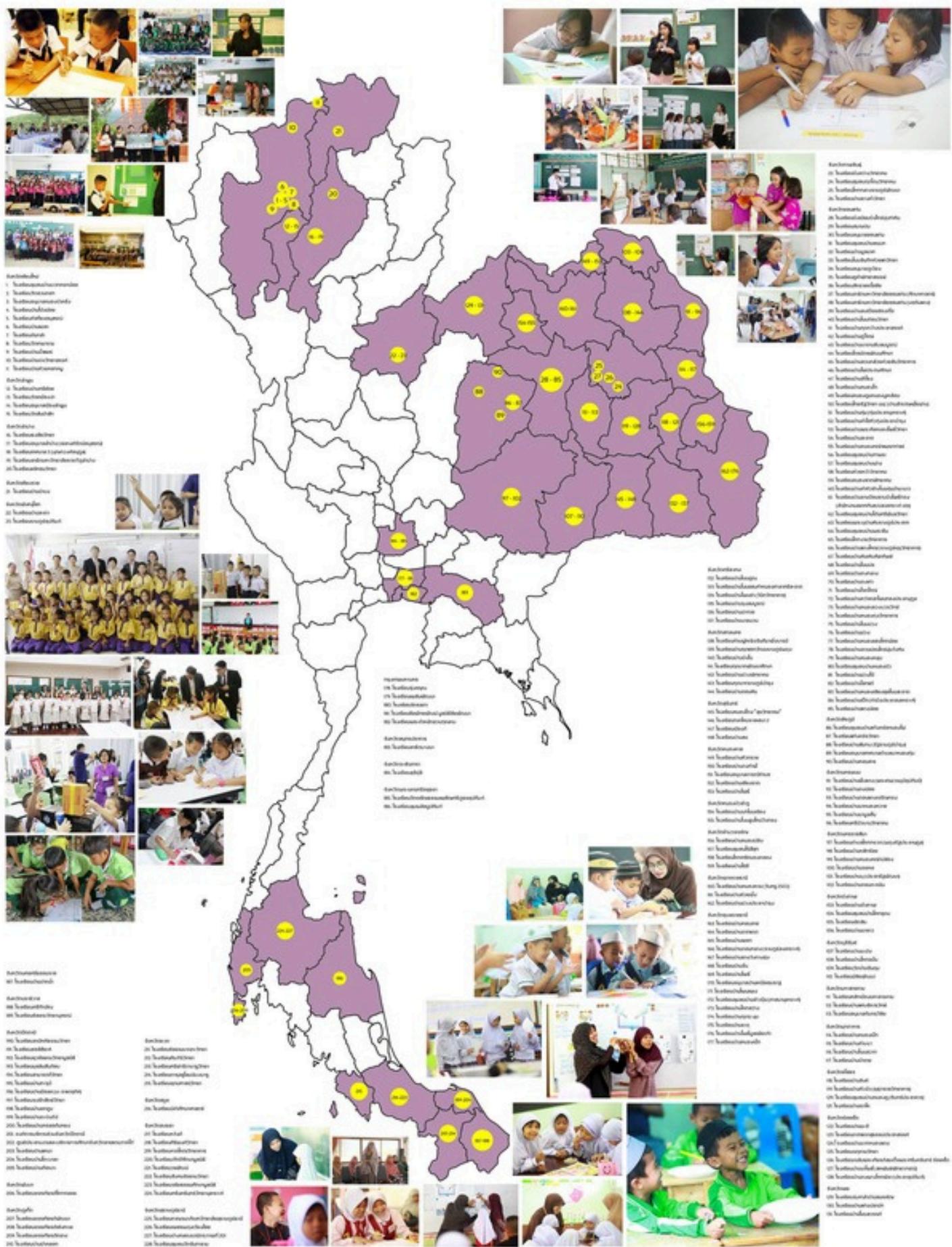
- Class 1: Activity on "Survival Bridge," learning unit on algebraic expressions, Mathayom 1 (Grade 7) level. Taught by Ms. Thanyasuda Pumipeng, a student teacher in Mathematics Education.
- Class 2: Activity on "Let's Share Candy," learning unit on division, Prathom 4 (Grade 4) level. Taught by Ms. Jirapa Nilsri, a student teacher in Mathematics Education.

The final session involved reflecting on the results with the school's administration and the classroom study team. They also exchanged knowledge to improve the quality of classroom instruction.



## **A total of 350 schools**

## Network schools using TLSOA innovation



# Strategic Issue 2: Research Transformation

**Strategic Objective 2: Support the Development of Large-Scale Research Projects that Operate as Research Teams and Work Continuously (Research Programs/Clusters)**

**OKR-18:** Percentage of Research Articles Published Internationally in the Scopus/ISI Database

1. Develop a support system to elevate the quality and impact of research output.

**Research results in the year 2024**

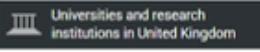
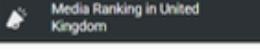
**Scopus Q1: 1**

1. Students' mathematization in mathematics classrooms using the Thailand lesson study incorporated open approach model

Authors: Sunti Bunlang, Maitree Inprasitha, Narumon Changsri. (2024), International Journal for Lesson and Learning Studies, Vol. 13 No. 1, pp. 14-27.

<https://doi.org/10.1108/IJLLS-06-2023-0077>

**International Journal for Lesson and Learning Studies**

COUNTRY	SUBJECT AREA AND CATEGORY	PUBLISHER	SJR 2024
United Kingdom	Social Sciences ↳ Education	Emerald Group Publishing Ltd.	<b>0.732</b> <span style="background-color: #92d050; padding: 2px 5px;">Q1</span>
 Universities and research institutions in United Kingdom  Media Ranking in United Kingdom			<b>25</b> H-INDEX

**Scopus Q3: 1**

1. Blended learning classroom model: a new extended teaching approach for new normal.

Authors: Maitree Inprasitha. (2023),

International Journal for Lesson and Learning Studies, Vol. 12 No. 4, pp. 288-300.

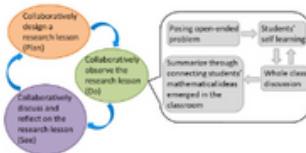
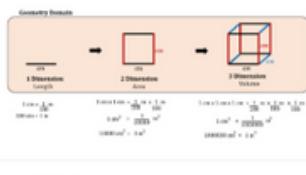
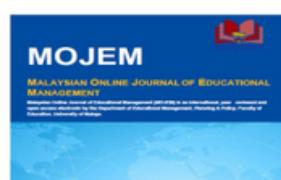
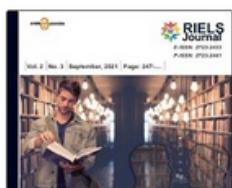
<https://doi.org/10.1108/IJLLS-01-2023-0011>

## Research publications in the past year 30 works.

A total of 30 research studies were published to promote the institute's innovative teaching methods over the past year, as follows:

1. **Development of information ethics model for elementary school administrators.** Authors: Tongkum, P., Thawinkan, D., Vatanasapt, P., & Tang, K. N. (2023). *Remittances Review*. 8(4), 3087-3100. Scopus SNIP 2.847, Q2 (Co-author and proof-reader).
2. **An investigation on coding educational management for small-sized elementary schools in northeastern of Thailand.** Authors: Thisopha, P., Thawinkan, D., Wachrakul, C., & Tang, K. N. (2023).
3. **Factors of strategic management to create ubiquitous organization for directors in secondary educational service area office.** Authors: Chaipai, S., Thawinkan, D., Sirisooksilp, S., & Tang, K. N. (2023).
4. **An exploration of integrated management factors for small-sized secondary school in northeast of Thailand.** Authors: Limpaiboon, S., Thawinkarn, D., Ariratana, W., & Tang, K. N. (2023).
5. **Factors affecting ethical competence of primary school administrators: A multi-level structural equation modelling.** Authors: Wongkhong, J., Wachrakul, C., Thawinkarn, D., Ketchatturat, J., & Tang, K.N. (2023).
6. **Rasch analysis for standards-setting appraisal of competency level-based performance on the part of instruction in higher education.** Authors: Nongna, C., Junpeng, P., Hong-ngam J., Podjana, C., Tang, K.N. (2023).
7. **Soft skills development training program to enhance Cambodian University Students' Entrepreneurial Capabilities.** Authors: Tem, S., Kuroda, A., Tang, K. N. (2022).
8. **The effect of design-based learning integrated with educational neuroscience instructional model on students' learning outcomes, executive functions, and learning stress.** Authors: Runganurak, W., Bunterm, T., Uopasai, S., & Tang, K. N. (2022).
9. **The effect of meditation on metacognitive ability, working memory ability, and stress level.** Authors: Uopasai, S., Bunterm, T., Tang, K. N., & Saksangawong, C. (2022).
10. **Use of digital learning platform in diagnosing seventh grade students' mathematical ability levels.** Authors: Chinjunthuk, S., Junpeng, P., & Tang, K. N. (2022). *Journal of Education and Learning*. 11(3), 95-104
11. **Lesson study and open approach development in Thailand: a longitudinal study.** Authors: Inprasitha, M. (2022). *International Journal for Lesson and Learning Studies*. 11(5), 1-15. Scopus SNIP 0.946, Q1.
12. **Cognitive aspects of students' mathematical reasoning habits: A study on utilizing lesson study and open approach.** Authors: Manmai, T., Inprasitha, M., & Changsri, N. (2021). *Pertanika Journal of Social Sciences & Humanities*, 29(4), 2591-2614. Scopus SNIP 0.379, Q3
13. **Synthesis of research on mathematical thinking development under the Lesson Study and Open Approach context.** Authors: Nasinsroy, J., Inprasitha, M., & Changsri, N. (2021). *Randwick International of Education and Linguistics Science (RIELS) Journal*, 2(3), 296-306.
14. **Design mathematical activity in mathematics classroom: Decimal number.** Authors: Bunlang, S., Inprasitha, M., & Changsri, N. (2021). *Randwick International of Education and Linguistics Science (RIELS) Journal*, 2(3), 247-259.
15. **Causes of problems in learning English as a second language as perceived by higher education students.** Authors: Fairclough, P., & Tang, K.N. (2021). *TESOL International Journal – Teaching English to Speakers of Other Languages*, 16(7), 33-48. Scopus SNIP 1.226, Q1
16. **Designing standards-setting for levels of mathematical proficiency in measurement and geometry: Multidimensional item response model.** Authors: Phaniew, S., Junpeng, P., & Tang, K.N. (2021). *Journal of Education and Learning*, 10(6), 103-111.
17. **Creating core competencies and workload-based outcome indicators of university lecturers' performance assessment: Functional analysis.** Authors: Nongna, C., Junpeng, P., Hong-ngam, J., Podjana, C., & Tang, K.N. (2021). *Journal of Education and Learning*, 10(6), 82-91.
18. **Implementing English-medium Instruction (EMI) in Thailand University Students' Perspectives.** Authors: Tang, K.N. (2021). *KKU Research Journal of Humanities and Social Sciences (Graduate Studies)*, 9(2), 95-108.
19. **Using classroom video in designing open-ended problem situations.** Authors: Laah-on, S., Inprasitha, M., Sangaroon, K., Changsri, N. (2021). *International Educational Research*, 4(1), 46-54.
20. **Core values of graduate students in the context of Lesson Study process.** Authors: Moonsri, A., Inprasitha, M., & Changsri, N. (2021). *International Educational Research*, 4(1), 38-45.

21. **An analysis of students' mathematical competencies: The relationship between units.** Authors: Jaiklai, J., Inprasitha, M., & Changsri, N. (2021). *International Educational Research*, 4(1), 29-37.
22. **Mathematics educators' perspective on pre-service mathematics teachers' professional competencies.** Authors: Chaona, S., Inprasitha, M., Changsri, N., Sangaroon, K. (2021). *International Educational Research*, 4(1), 55-60.
23. **Looking back on the 12-year APEC Lesson Study Project: Thailand perspective.** Authors: Inprasitha, M., Changsri, N., Isoda, M. (2021). *Journal of Southeast Asian Education: Education for Inclusive Growth on the 4th Industrial Revolution for Society 5.0*, 2020(2), 129-135.
24. **Describing researchers' ways of seeing a lesson: As the first work of the cross-cultural study on lesson study between Japan and Thailand.** Authors: Mizoguchi, T., Inprasitha, M., Changsri, N. & Shinno, Y. (2020). *Educação Matemática Pesquisa : Revista do Programa de Estudos Pós-Graduados em Educação Matemática*, 22(4) –Congresso Internacional sobre a TAD – CITAD 6, 836-844.
25. **A causal relationship model of primary public school students' achievement: A multiple group analysis.** Authors: Prasertcharoensuk, T., Chaiwan, J., Tang, K. N., & Makmee, P. (2020). *Pertanika Journal of Social Sciences & Humanities*, 28(4), 3003-3024.
26. **Challenges and importance of teaching English as a medium of instruction in Thailand International College.** Authors: Tang, K. N. (2020). *The Journal of English as an International Language*, 15(2), 97-118.
27. **Developing an assessment framework of multidimensional scientific competencies.** Authors: Intasoi, S., Junpeng, P., Ketchatturat, J., Tang, K. N., & Wilson, M. (2020). *International Journal of Evaluation and Research in Education*, 9(4), 963-970.
28. **Development of an assessment tool for mathematical reading, analytical thinking and mathematical writing.** Authors: Kesorn, N., Junpeng, P., Marwiang, M., Pongboriboon, K., Tang, K. N., & Wilson, M. (2020). *International Journal of Evaluation and Research in Education*, 9(4), 955-962.
29. **The importance of soft skills development to enhance entrepreneurial capacity.** Authors: Tem, S., Kuroda, A., Tang, K.N. (2020). *International Educational Research*, 3(3), 1-7.
30. **Development of reasoning habits through Lesson Study and Open Approach Teaching Practices.** Authors: Manmai, T., Inprasitha, M., Changsri, N, & Pattanajak, A. (2020). *International Educational Research*, 3(2), 29-36.



# Strategic Issue 4: Societal Contributions

## Strategic Objective 3: Supporting and Strengthening Communities and Society (Community Support)

**OKR-39:** Number of Academic Service Projects with the Objective for Agencies/Communities to Utilize Research and Innovation in Accordance with the Concepts of (SDG4) and (SDG17)

### 1. Promoting Collaboration for Sustainable Community and Societal Development Goals

- Integrating efforts to reduce economic inequality and address poverty
- Promoting food, water, and energy security for society and communities
- Advancing health, education, and environmental management within communities



## **Toyo Seminar 1/2024: "Regional Cooperation and Initiatives for the Carbon Neutral World (Innovation from Small Insights)"**

Khon Kaen University promotes environmental awareness aligned with SDGs goals through lessons learned from Japan. On Tuesday, February 20, 2024, from 11:00 AM to 1:00 PM, Khon Kaen University, through Institute for Research and Development in Teaching Profession for ASEAN (IRDTP,KKU), in collaboration with Toyo System Co., LTD., The Mathematics Certification Institute of Japan, and the Education for Thinking Skills Development Foundation, organized a University-Industry Collaboration seminar under the topic "To become Carbon Neutral Importance of Rechargeable battery and Human Resource development" as part of an environmental awareness project using STEAM Education for problem-solving.

At 11:00 AM (Thailand time), Associate Professor Dr. Maitree Inprasitha, Vice President for Education and Academic Service and Acting Director of IRDTP,KKU , opened the event and introduced the speaker, Mr. Hideki Shoji, Chairman of the Board, President & CEO of TOYO SYSTEM Co., LTD. TOYO SYSTEM has engaged in CSV (Creating Shared Value) with Iwaki City, Fukushima Prefecture, in the recovery from the impact of the hydrogen explosion in 2011. They successfully recovered within a few years, and Mr. Shoji presented and shared their experiences regarding the environment.

He delivered a lecture on "To become Carbon Neutral Importance of Rechargeable battery and Human Resource development," focusing on achieving carbon neutrality (reducing net carbon dioxide or greenhouse gas emissions to zero). He shared knowledge in various aspects of environmental conservation, including:

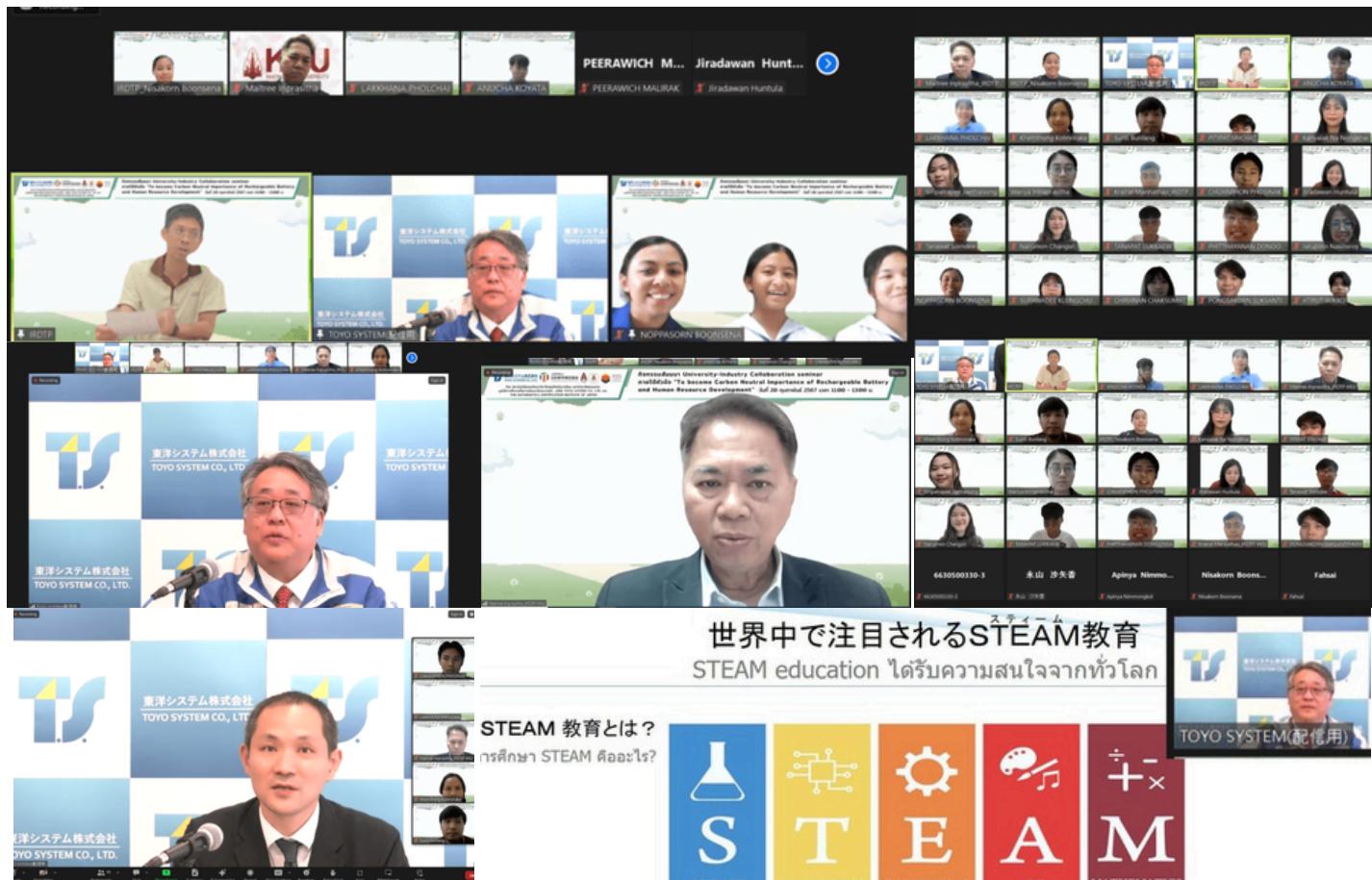
1. Developing reusable (secondary) batteries to enhance safety.
2. Highlighting the importance of backup batteries for natural energy control and reducing CO<sub>2</sub> emissions from energy production.
3. Sharing knowledge about developing human resources within organizations to embrace a carbon-neutral society and strengthen adaptation to the future IT and global society.
4. Transferring knowledge to students through various methods to spark curiosity and lead to problem-solving.
5. Promoting the use of hydrogen energy through collaboration between the private sector and communities, in line with the Sustainable Development Goals (SDGs), as it can be produced from various resources, reduces greenhouse gas emissions, has a lower environmental impact, and offers high energy efficiency.

## OKR-39 Number of Academic Service Projects with the Objective for Agencies/ Communities to Utilize Research and Innovation in Accordance with the Concepts of (SDG4) and (SDG17)

Mr. Hideki Shoji stated, "If every organization helps promote and collaborate, it will contribute to the development of the country. I want to help promote both Thailand and Japan to become environmentally friendly countries."

During the Q&A session, the speaker addressed questions and provided additional information to the Thai participants regarding environmental promotion from Japan's perspective. This included topics such as forest maintenance in Japan to increase CO2 absorption through new tree planting, hydrogen production using biogas in Thailand, the types of vehicles that help conserve the environment, and whether using EV cars truly helps conserve the environment.

This seminar marked the 6th collaboration to drive the project for environmental awareness using STEAM Education for students, teachers, educational personnel, and the general public to raise awareness about environmental issues. It also aimed to promote and support lifelong learning and sustainable development through learning from Japan's experiences and creating an environmentally conscious industry for future sustainability. A 7th seminar on the same topic was scheduled for Tuesday, March 12, 2024, from 11:00 AM to 1:00 PM (Thailand time). The event saw over 100 registered participants, including executives, faculty, staff, students of Khon Kaen University, educational personnel, and the general public.



## The 5<sup>th</sup> Mathematics Festival Thailand, 2023

Khon Kaen University, through Institute for Research and Development in Teaching Profession for ASEAN (IRDTP for ASEAN) and Center for Research in Mathematics Education, in collaboration with the Mathematical Association of Thailand, the Education for Thinking Skills Development Foundation, and the Moscow Center for Continuous Mathematical Education, organized the 5th Mathematics Festival Thailand, 2023, on Saturday, December 23, 2023, at the IRDTP for ASEAN building, Khon Kaen University.

H.E. Mr. Evgeny Tomikhin, Ambassador of Russia to Thailand, along with Mr. Vladimir Kim, Second Secretary of the Russian Embassy in Thailand, visited the event and delivered a speech at the opening ceremony. Professor Dr. Montchai Duangjinda, Vice President for Research and Graduate Studies, Khon Kaen University, opened the event, along with Associate Professor Dr. Maitree Inprasitha, Vice President for Education and Academic Service, Assistant Professor Piyawat Saiphan, Director of the Academic Administration and Development Office, and Assistant Professor Dr. Narumon Changsri, Director of Center for Research in Mathematics Education, who presented a report on the event's organization.

H.E. Mr. Evgeny Tomikhin stated, "I would like to congratulate the organization of the Mathematics Festival for the 5th consecutive year. This year, Russian experts are participating in the preparation and organization of the event. This is an important event that will lead to the development of educational cooperation between the two countries. Since mathematics is the queen of all sciences, we cannot underestimate the importance of mathematics in our lives. Human progress and civilization cannot occur if scientific and technological advances are not based on the knowledge of the laws of nature, which are expressed through the universal language of mathematics. Despite the challenges in many areas from the past to the present, the culture of learning and studying mathematics in Russia remains strong. We have experience and knowledge that we are ready to share with everyone, including our Thai friends. I believe that Russian experts are ready to support Thailand in transferring the best practices of Russia in teaching mathematics to children through this important activity."



Asst. Prof. Dr. Narumon Changsri, Director of Center for Research in Mathematics Education, Khon Kaen University, stated in her report that the purpose of organizing this event is to develop mathematics learning in the format of Math Festival, to realize the continued cooperation of Khon Kaen University and the Center for Continuous Mathematical Education Higher School of Economics Math Department, Russia, for more than 10 years through the APEC –Lesson Study Project, which is held annually in Moscow, Russia, for more than 40 years, and for the past 4 years, the Mathematics Festival has been held in Thailand every year, with the Education and Academic Service Division, Khon Kaen University, together with Center for Research in Mathematics Education and Institute for Research and Development in Teaching Profession for ASEAN, as the organizers.

This year's important activities included: Math Feast Olympiad using problem sets designed and developed in Russia for students to solve 6 problems; a mathematics game base activity with 4 game bases; a special lecture by Assoc. Prof. Ivan Vysotskiy on From Tasks to Problems: Painting Fences and Fermat's Little Theorem.

The participants included administrators, faculty, Mathayom 1 (Grade 7) students, teachers, parents, undergraduate students, and graduate students in Mathematics Education, Khon Kaen University, and distinguished guests totaling 500 people. From 2023 onwards, the Mathematics Festival Thailand has been included in the Russian-Thai Roundtable (RTRT) project on educational cooperation for gifted children and research under the Royal Initiative of Her Royal Highness Princess Maha Chakri Sirindhorn during her visit to the Russian Federation in 2017, to celebrate the 120th anniversary of Thai-Russian diplomatic relations.

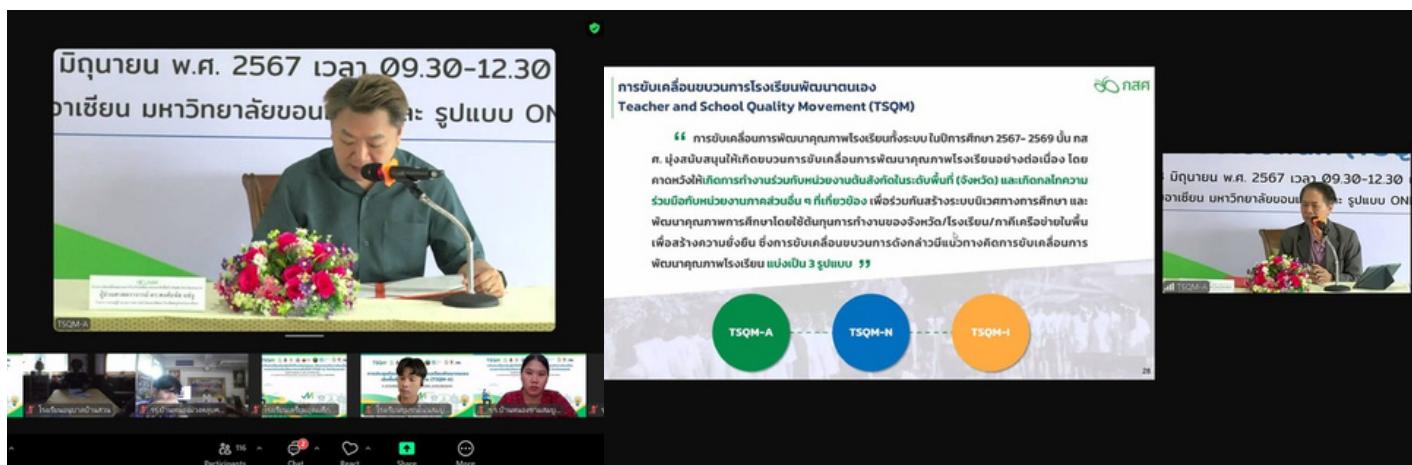
Activities for developing mathematics learning through the Mathematics Festival Thailand can be followed in December of every year. More information can be found at:

[https://irdtpforasean.kku.ac.th/math\\_festival](https://irdtpforasean.kku.ac.th/math_festival)



## Workshop on the Use of Developmental Evaluation (DE) and the Direction of Driving the Teacher and School Quality Movement Area (TSQM-A) in Khon Kaen Province

Khon Kaen University, through Institute for Research and Development in Teaching Profession for ASEAN (IRDTP for ASEAN), received support for the Teacher and School Quality Movement: Area (TSQM-A) Khon Kaen project, supported by the Bureau of Teacher and Educational Personnel Development, Equitable Education Fund (EEF). The project has a plan to operate as a movement to drive the quality development of schools and education with the participation of network partners in Khon Kaen province. The 6th activity was held through a learning exchange forum in pilot schools to expand the driving of the Teacher and School Quality Movement Area (TSQM-A) Khon Kaen province on Friday, June 28, 2024, from 09:30-12:30 online via Zoom meeting. Assistant Professor Dr. Phongthanat Sae-jo, Acting Director of Institute for Research and Development in Teaching Profession for ASEAN, opened the event. The event included a special lecture on the topic "Guidelines for Driving the Teacher and School Quality Movement Area (TSQM-A) in Khon Kaen Province" by Dr. Udom Wongsingh, Director of the Bureau of Teacher and Educational Personnel Development, Equitable Education Fund (EEF), and a special lecture on the topic "Costs and Directions for Driving the Teacher and School Quality Movement Area (TSQM-A) in Khon Kaen Province" by Associate Professor Dr. Maitree Inprasitha, Head of the Teacher and School Quality Movement Area (TSQM-A) Khon Kaen project. The event also featured speakers from pilot schools sharing their experiences in driving the pilot schools in Khon Kaen province, Self-Development Schools (TSQP), and exchanging views on the results of developing students, teachers, and school administrators, communities, and parents in driving the pilot schools in Khon Kaen province, Self-Development Schools (TSQP) in 4 topics.



## OKR-39 Number of Academic Service Projects with the Objective for Agencies/ Communities to Utilize Research and Innovation in Accordance with the Concepts of (SDG4) and (SDG17)

The 4 topics include:

1. The process of developing teaching and learning for teachers in the classroom that is Active Learning expanding to other subjects by Mr. Santi Mungmai, Director of Ban Thum School (Thum Prachanukroh).
2. The use of the Quality Learning Information System (Q-info) for administrators and teachers to use to develop students and be able to take care of and assist students together with parents by Mrs. Chalida Sotthimai, teacher at Ban Bueng Niam Bueng Khrai Nun Tha Hin School.
3. The topic of creating participation in education development and networks by using Open-class by Mrs. Philailak Pengwongsa, teacher at Khu Kham Phitthayasarn School.
4. The topic of guidelines for using the TSOA development cycle in developing performance agreements (PA) by Dr. Thanyaporn Luangthongratchapha, Director of Nong Toom Nong Ngu Lueam School.

Associate Professor Jumpol Rachvijit, Advisor on Service and Training, and Miss Pornpimol Thakaworabut, Expert of the Institute, were the moderators. The event was attended online by more than 120 target schools that are interested in developing education in Khon Kaen province.



# PME Regional Conference 2023

For the First Time in the Greater Mekong Subregion! Khon Kaen University and Network Partners Host "PME Regional Conference 2023"

Researchers and Experts from 14 Countries Participate in "PME Regional Conference 2023": Khon Kaen University and Network Partners Host for the First Time in the Greater Mekong Subregion, Exchanging Knowledge of Mathematics Education at the International Level.

On Saturday, December 2, 2023, Institute for Research and Development in Teaching Profession for ASEAN, in collaboration with the Mathematical Association of Thailand, the Center of Excellence in Mathematics, Center for Research in Mathematics Education, Khon Kaen University, the Education for Thinking Skills Development Foundation, and the Thailand Mathematical Competency Assessment Institute, organized the PME Regional Conference 2023 under the theme "Mathematical Thinking Skills in the Digital Era: Regional Episode" at Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University in a hybrid format. Associate Professor Dr. Maitree Inprasitha, Vice President for Education and Academic Service, Khon Kaen University, stated that the Conference of the International Group for the Psychology of Mathematics Education (PME) has been held annually since 1977 to provide experts, educators, researchers, conference participants, and members of PME worldwide with the opportunity to exchange knowledge together in the academic community of mathematics education. Thailand was honored to co-host PME44 in 2020-2021. This time, the Mathematical Association of Thailand and Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, were honored to host again, which is the first PME Regional Conference in the CLMV countries under the theme "Mathematical Thinking Skills in the Digital Era: Regional Episode," with over 200 participants from 14 countries.

"The International program committee has given us the opportunity to organize PME Regional Conference 2023 amid efforts to build a network in the CLMV countries to strengthen the mathematics community, which is an important opportunity to celebrate the 60th anniversary of Khon Kaen University at the same time."

Professor Dr. Montchai Duangjinda, Vice President for Research and Graduate Studies, Khon Kaen University, opened the conference, and Professor Emeritus Dr. Yongwimon Lenbury, Director of the Center of Excellence in Mathematics, Mahidol University, as Chairman of the Organizing Committee of PME Regional Conference 2023, welcomed the participants, along with representatives from PME who expressed their congratulations.



### **OKR-39 Number of Academic Service Projects with the Objective for Agencies/ Communities to Utilize Research and Innovation in Accordance with the Concepts of (SDG4) and (SDG17)**

H.E. Prof. Dr. Chan Roath, President of the Cambodian Mathematical Society and Director of New Generation Pedagogical Research Center, Cambodia, stated that the importance of the PME Regional Conference is like a festival of knowledge, an opportunity to make the gears of progress run smoothly. Participating in this conference is like bringing a part of Cambodia into a global brainstorming session, an opportunity to show perspectives, challenges, and successes.

"This conference is not just a conference platform, but a beacon of Cambodia's participation to learn from other countries, exchange ideas, and create cooperation that can lead to positive changes in our country." Mr. Soutchanthong Chanthavong, Director of Khangkhay Teacher Training College, stated that this conference is very important to Laos, and this time a large team of researchers participated, which is an opportunity to share various research ideas in mathematics and for researchers to step up to the international level in presenting academic work, as well as gathering information and knowledge gained from the conference to develop and expand knowledge further. At the same time, he hopes that international conferences like this one will be held again in our ASEAN Mekong region.

The PME Regional Conference 2023 had a wealth of knowledge and academic activities throughout the 3 days from December 2 – 4, 2023. The highlights included the Plenary Lecture 3 topics: Learning to Think Mathematically in Thai Classroom using Thailand Lesson Study incorporated with Open Approach (TLSOA) by Associate Professor Dr. Maitree Inprasitha, President of the Mathematical Association of Thailand and Vice President for Education and Academic Service, Khon Kaen University; The development of failure to learn mathematics: complexity, commognition, and identity by Assoc. Prof. Dr. Einat Heyd-Metzuyanim, Technion – Israel Institute of Technology, Israel; and Introspective thinking and contemplative thinking in mathematical communication the power of seeing the invisible to overcome a fragmented world by Assoc. Prof. Dr. Hideyo Emori, Otani University, Japan.

In addition, the conference provided a platform for participants to present 49 research works, including 13 Research Reports, 19 Oral Communications, and 17 Poster Presentations.



## **The 17<sup>th</sup> National Open Class: TLSOA**

Faculty members enthusiastically participate in the 17th National Open Class at Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University. Educational institutions at Khon Kaen University recognize the importance of supporting and cooperating with Khon Kaen Province to develop a Smart City in various aspects, including Smart People. This National Open Class is part of demonstrating the development of education quality. At 09:00 on March 23, 2024, at Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, Mr. Yutthaporn Pirunsarn, Deputy Governor of Khon Kaen Province, presided over the opening ceremony of the "National Open Class, 17th Edition." The event was honored by Assoc. Prof. Dr. Chanchai Panthongviriyakul, President of Khon Kaen University, who welcomed the participants, as well as Assoc. Prof. Dr. Kittichai Triratanasirichai, Vice President of the Council of Rajamangala University of Technology Lanna and former President of Khon Kaen University, Dr. Poomphat Rueanglae, Assistant Secretary-General of the Education Council, Asst. Prof. Dr. Araya Chao Reangrit, Dean of Technology, Asst. Prof. Nattapach Anantatheerakul, Assistant President for Education and Academic Service, and academic network partners who warmly attended the opening ceremony. The event had over 500 on-site participants and online participants, including administrators and faculty members, students of Khon Kaen University, educational area directors, educational supervisors, school directors, teachers, and interested individuals from all regions of Thailand, totaling over 1,000 people.



Assoc. Prof. Dr. Chanchai Panthongviriyakul, President of Khon Kaen University, welcomed all participants, stating that as an educational institution, Khon Kaen University recognizes the importance of supporting and cooperating with Khon Kaen Province to develop a Smart City in various aspects, including Smart People. This National Open Class is part of demonstrating the development of education quality that goes deep into the school level through the work of Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, and Center for Research in Mathematics Education, in cooperation with various network partners to develop education and research in real classrooms, connecting the teacher production system and the in-service teacher system, and supporting the driving of quality schools throughout the system. "I believe that driving the development of citizens through the development of education quality regarding the process of developing teaching and learning to upgrade classroom quality with TLSOA innovation, including the organization of the National Open Class for the past 17 years, will be the basis for sustainable development, including the basis of cooperation with the province in moving towards the Khon Kaen Model. I welcome everyone to the National Open Class, 17th Edition."

## OKR-39 Number of Academic Service Projects with the Objective for Agencies/ Communities to Utilize Research and Innovation in Accordance with the Concepts of (SDG4) and (SDG17)

Following this, Assoc. Prof. Dr. Maitree Inprasitha, Vice President for Academic Affairs, Khon Kaen University, and Acting Director of Institute for Research and Development in Teaching Profession for ASEAN, reported that the 17th National Open Class is scheduled to be held between March 23 – 24, 2024, in a hybrid format. This is a collaboration between Khon Kaen University, through the Division of Academic Affairs, Institute for Research and Development in Teaching Profession for ASEAN, Center for Research in Mathematics Education, the Center of Excellence in Mathematics at Mahidol University, the Mathematical Education Society, the Education for Thinking Skills Development Foundation, the Phuttaraksa Foundation, and the Equitable Education Fund (EEF). The term "Open Class" in Thai is used to describe a process of developing teaching and learning to sustainably improve the quality of classrooms. Initially, the innovation of Lesson Study, in collaboration with the APEC Lesson Study project with Tsukuba University, Japan, and its economic network group, was adapted to suit the context of classrooms in Thailand, resulting in the "Thailand Lesson Study incorporated with Open Approach (TLSOA)" innovation. This has become an internationally recognized educational innovation. "Whole school improvement is a process in which not only the teachers themselves drive the classroom, but also the principals, teachers from other subject groups or grade levels, education supervisors, or other personnel can jointly create a collaborative working culture. It emphasizes the development of student learning in the classroom, the development of the actual use of classrooms, emphasizes the joint learning of teachers and personnel at all levels to understand and accept student ideas, and emphasizes continuous development using the school as the basis for development, in order to help improve the quality of classrooms further, leading to the production of Smart people, which is an important foundation of a Smart city."



Meanwhile, Mr. Yutthaporn Pirunsarn, Deputy Governor of Khon Kaen Province, stated that, according to the Khon Kaen Province's policy to drive the province to become a Smart City, the promotion of education through research and development of innovation is greatly appreciated. He was pleased to see that Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, has been driving research and development in teaching and learning to improve the quality of classrooms for a long time. He also noted the efforts of the Institute at Khon Kaen University, in collaboration with the Equitable Education Fund (EEF), to expand the innovative TLSOA model at the educational service area level in Khon Kaen Province, with 52 schools under the jurisdiction of the Primary Educational Service Area Offices 1-5 participating throughout. "The development of Khon Kaen into a smart city stems from the fact that Khon Kaen has experienced rapid growth, becoming the center of the Northeast. Many people will know, be interested in, and come to Khon Kaen province. This must include Khon Kaen University with a quality education system as part of it, and I firmly believe that if Khon Kaen Province joins forces with the Institute at Khon Kaen University and all educational agencies in the province, we will be able to drive together as a Smart City to improve quality, build on the development, expand the results with networks, and create educational sustainability."

## OKR-39 Number of Academic Service Projects with the Objective for Agencies/ Communities to Utilize Research and Innovation in Accordance with the Concepts of (SDG4) and (SDG17)

For this National Open Class event, the organizing team recognizes the Digital Disruption in bringing digital technology to solve problems and improve the quality of social services in education. Therefore, they are preparing to operate in a Hybrid format, both on-site at Khon Kaen University and online on the website [www.openclassthailand.com](http://www.openclassthailand.com). More than 1,000 participants, including administrators, faculty, and students from Khon Kaen University, educational service area directors, education supervisors, school directors, teachers, and interested individuals from all regions of Thailand, will have the opportunity to meet with expert teachers in developing teaching innovations from all regions of Thailand, listen to special lectures by education experts from Thailand and abroad, engage in discussions from the classroom education team, and watch a documentary about the 20-year journey of research and development of TLSOA innovation, along with an exhibition of schools that use innovation to develop classrooms. The event will also feature lectures on the direction of driving and developing the quality of teachers and educational institutions by Dr. Udom Wongsing, Director of the Bureau of Teacher and Educational Institution Development. Special lectures from Thai and foreign experts include: "History and Development of Teacher Education: An Innovative Perspective" by Dr. Sumet Yamnoon, Chairman of the Policy and Planning Subcommittee (MHESI); "Guidelines for Developing Basic Education to Connect with Education in Vocational Institutions" by Associate Professor Dr. Kittichai Triratanasirichai, Vice President of the Council of Rajamangala University of Technology Lanna; "Research and Development of Innovation with the Professional Development System of Thailand (Pre-record)" by Professor Dr. Vicharn Panich, Chairman of the Steering Committee, Institute for Research on Educational Equity (IREE); "Research to Develop Teaching and Learning to Develop Thinking Skills: The Experience of Japan" by Prof. Hideyo Emori, Otani University for Research and International, Japan; and "Research and Development of Educational Innovation with National Policy Setting" by Professor Dr. Kanok Wongtrangan, Deputy Chairman of the Advisor to the Minister of Social Development and Human Security.



# Strategic Issue 9: Internationalization

## Strategic Objective 3: Support Strategies for Higher World University Ranking

**OKR-65** Number of Activities/Projects Promoting Khon Kaen University's Ranking by THE, QS Ranking, or CWTS Leiden

1. Support strategies for higher World University Ranking.



**OKR-65** Number of Activities/Projects Promoting Khon Kaen University's Ranking by THE, QS Ranking, or CWTS Leiden

## **2024 KNUE-KKU Teacher Training: Reskill and Upskill to Enhance the Quality of Teacher Education in the Digital Era**

Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University (IRDTP-KKU) organized the 2024 KNUE-KKU Teacher Training program, aiming to promote innovative teaching methods in the digital age.

On August 3, 2024, Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University (IRDTP-KKU) held the 2024 KNUE-KKU Teacher Training program under the theme "Reskilling and Upskilling to Enhance the Quality of Teacher Education in the Digital Era." The opening ceremony featured a speech by Professor Dr. Prapaporn Maleewong, Vice President for Research of Khon Kaen University, along with Prof. Dr. Younghoon Kim, Director of KNUE UNITWIN Program, Korea National University of Education, Korea (South); Asst Prof Dr. Phongthanat Sae-joo, Acting Director of Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University; Associate Professor Dr. Maitree Inprasitha, Senior Research at Institute for Research and Development in Teaching Profession for ASEAN (IRDTP), Khon Kaen University; and teachers, lecturers, and educators from across the country who are interested and dedicated to developing education and the teaching profession in the digital age. There were 54 registered participants and over 100 online participants at Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University.

Asst. Prof. Dr. Phongthanat Sae-joo, Acting Director of Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, reported that this project is a collaboration between Korea National University of Education (KNUE) and Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University (IRDTP-KKU), with strong support from UNESCO and the Ministry of Education of Korea, and is part of the "UNESCO KNUE UNITWIN Program." It focuses on driving sustainable development, SDG4: Quality Education and SDG17: Partnerships for the Goals, and has been operating since 2019. Its objectives are to enhance the digital skills of personnel for teaching in the 21st century, promote international cooperation in teacher education, and promote innovative teaching methods in the digital age.



## OKR-65 Number of Activities/Projects Promoting Khon Kaen University's Ranking by THE, QS Ranking, or CWTS Leiden

Prof. Dr. Prapaporn Maleewong, Vice President for Research of Khon Kaen University, stated that this project is a collaboration under the UNESCO UNITWIN program, with the honor of experts from Thailand, Korea, Japan, and Chile. Therefore, organizing this project is a significant step in the ongoing effort to improve teacher education and adapt to the challenges and changes of the digital age. It also aligns with the vision and goals of Khon Kaen University, particularly in strengthening academic service, research transformation, and international collaboration, while also significantly contributing to Khon Kaen University's Social Impact Ranking in education."

Assoc. Prof. Dr. Maitree Inprasitha, Senior Researcher at Institute for Research and Development in Teaching Profession for ASEAN (IRDTP), Khon Kaen University (right), gave an overview of the event, stating that "over the next 4 days, teachers, lecturers, and educators from across the country will learn about various aspects of education in the digital age, which are designed to promote the professional development of participants. This includes special lectures by renowned international experts to provide insights into global education trends, hands-on workshops to learn how to apply AI in advanced education, and practical applications through open class activities and collaborative lesson planning."

This collaborative project took place from August 3-6, 2024, and included activities such as special lectures by renowned international experts from Korea, Japan, Chile, and Thailand, and workshops covering important topics such as developing digital textbooks for mathematics learning, using ChatGPT for education, 4D frame technology, and computational thinking. The event also featured open class activities.



# **The 17 APEC-TSUKUBA International Conference: "Online Workshops for Lesson Study 2.0: Unplugged Computational Thinking in APEC Economies"**

On April 18, 2024, from 09:00 to 12:00 Thailand time, the University of Tsukuba, Japan, organized the 17th APEC-TSUKUBA INTERNATIONAL CONFERENCE 2024 online under the theme "Online Workshops for Lesson Study 2.0: Unplugged Computational Thinking in APEC Economies." This was the First Workshop on the topic of Unplugged Computational Thinking at Primary Education.

On this occasion, Assoc. Prof. Dr. Maitree Inprasitha, Vice President for Education and Academic Services and Acting Director of Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, as the Project Overseer on behalf of Thailand, participated and spoke about the history of the APEC Lesson Study Project and Network, which has been ongoing since 2006. He joined Prof. Masami Isoda, CRICED, University of Tsukuba, as the Project Overseer on behalf of Japan. Prof. Jun Ikeda, Vice President for Global Affairs, University of Tsukuba, Mr. Yasutaka Komatsuzaki, Deputy Director Minister's Secretariat International Affairs Division, Ministry of Education, Culture, Sports, Science and Technology (MEXT), and Dr. Yuchi Zhao, APEC EDNET Coordinator 2023-2024, also participated in the meeting and gave opening remarks. The conference included various activities:

## 1. Keynote session for Unplugging Computational Thinking:

- On Computational Thinking by Roberto Araya, Chile
- On Mathematical Thinking by Masami Isoda, Japan
- On STEM Thinking by Kritsachai Somsaman, Thailand

Asst. Prof. Dr. Narumon Changsri, Director of Center for Research in Mathematics Education, Faculty of Education, Khon Kaen University, moderated the session.

The image is a screenshot of the APEC-TSUKUBA International Conference XVII online platform. The top left shows the 'Project Overseers' section for the APEC HRDWG Project-14 2022S, featuring portraits of Dr. Maitree Inprasitha, Dr. Masami Isoda, and Prof. Jun Ikeda. The top right shows the 'Lesson Study Preparation: Panel Session' with a list of speakers including Dr. Narumon Changsri, Dr. Raimundo Olfos, Dr. Eudora Ni, Dr. Sri Walandari Darmawibowo, Dr. Wan-Near Adimin Binti, Dr. Dr. Wardah Pratiwi, Dr. Utkarsha, and Dr. Nadeem Rizwan. The bottom left shows a grid of participant video feeds, and the bottom right shows a large video feed of Dr. Jun Ikeda speaking.

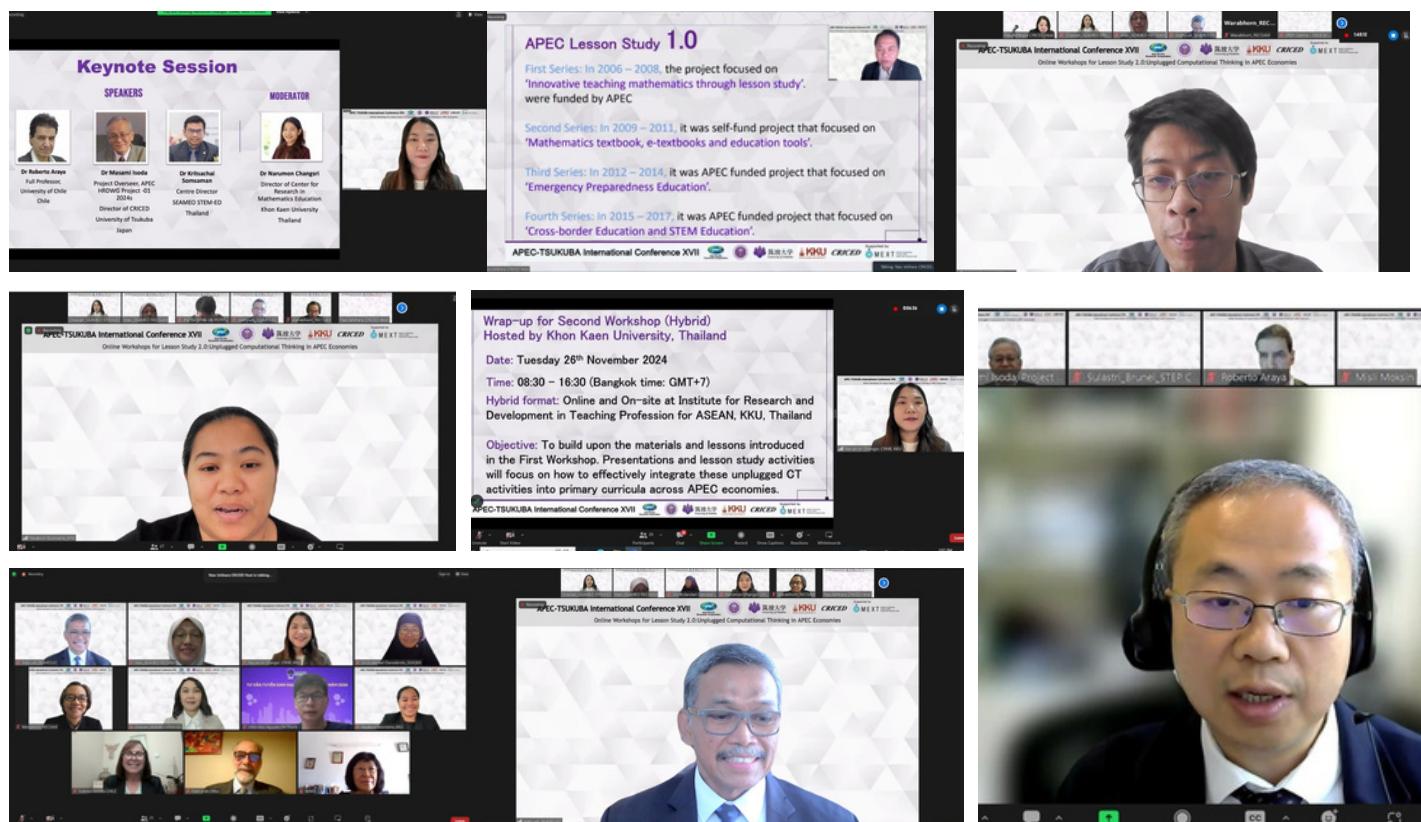
## OKR-65 Number of Activities/Projects Promoting Khon Kaen University's Ranking by THE, QS Ranking, or CWTS Leiden

2. Lesson Study Preparation Session: Presentations by representatives from Malaysia, Indonesia, and Thailand. On behalf of the Lesson Study network from Thailand, the presenters included Assistant Professor Dr. Narumon Changsri, Director of Center for Research in Mathematics Education; Mr. Uk Inprasitha, expert in teacher and educational personnel professional development at Institute for Research and Development in Teaching Profession for ASEAN; and Dr. Nisakorn Boonsena, lecturer in Mathematics Education at Khon Kaen University.

3. Commentary based on the review of the booklet: By experts from 6 economies including Vietnam, Mexico, Chile, Russia, Peru and Philippines.

### 4. Q&A, Discussion, and Wrap up for the Second Workshop in Thailand

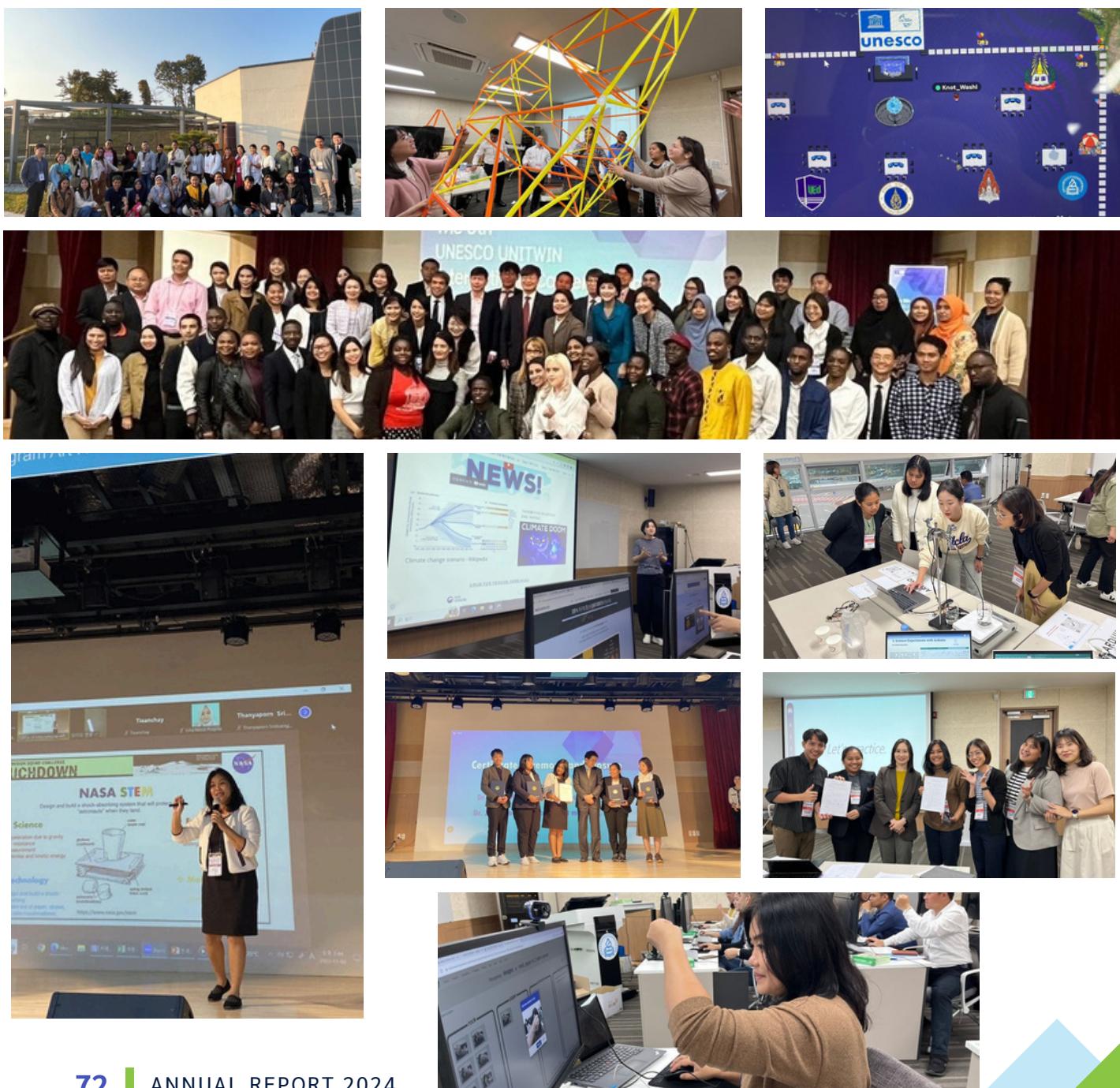
The objectives of this event were to promote the development of computational thinking skills through materials from the Guidebook for Unplugged Computational Thinking, which was developed jointly by: 1. University of Tsukuba, Japan 2. University of Chile, Chile 3. SEAMEO RECSAM, Malaysia 4. SEAMEO QITEP in Mathematics, Indonesia 5. SEAMEO SEAMOLEC, Indonesia 6. SEAMEO STEM-ED, Thailand and 7. IRDTP – KKU, Thailand. Participants included APEC specialists and Government officials from 12 economies including Japan, Thailand, Chile, Malaysia, Indonesia, Vietnam, Philippines, Brunei, Russian Federation, Peru, Mexico and United States of America. After this, the tools obtained from the First Workshop will be implemented in each economy and the experiences will be shared again in the Second Workshop, which is scheduled to be organized by Khon Kaen University on behalf of Thailand on November 26, 2024.



## OKR-65 Number of Activities/Projects Promoting Khon Kaen University's Ranking by THE, QS Ranking, or CWTS Leiden

# KNUE UNITWIN the 8<sup>th</sup> UNESCO UNITWIN International Conference

The presentation of academic work at The 8th UNESCO UNITWIN International Conference on Quality Teacher Education 2023. Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, participated in The 8th UNESCO UNITWIN International Conference on Quality Teacher Education 2023 and attended the 2023 UNITWIN Cooperation Programme for Quality Teacher Training between October 30 and November 4, 2023, at Korea National University of Education, Republic of Korea.



## **Professional Development for Teachers and School Leaders Program**

Institute for Research and Development in Teaching Profession for ASEAN has implemented a strategy aimed at creating academic cooperation to support comprehensive and equitable quality education, in line with the Sustainable Development Goal (SDG4) and the creation of international cooperation (SDG17). In collaboration with the Teachers Council of Thailand, Institute for the Development in Teaching, Faculty and Educational Personnel, and the National Institutes for school teachers and staff development (NITS) of Japan, the Professional Development for Teachers and School Leaders Program has been ongoing since 2018 to provide participating school administrators, education supervisors, and teachers with continuous learning through all 5 phases of training, held both in Thailand and Japan. In 2023, the 4th cohort of the program involved 43 participants from 17 schools across the country who participated in and completed the program's curriculum.

In Phase 1, participants learned about the TSOA innovation, which originated in Japan and has been adapted to the context of Thailand. Participants then had the opportunity to implement it with their school teams before learning from real classrooms in Japan in Phase 2, which is a rare experience without international cooperation.

In Phase 2, participants observed the Lesson Study process of Japanese teachers, observed classrooms at both the primary and secondary levels, and reflected on the results with Japanese lecturers throughout Phase 3. In Phase 4, participants had the opportunity to apply the knowledge gained back to their classrooms in Thailand with the full encouragement they received from their experiences in Japan. This program aims to develop the potential of school administrators, teachers, and education supervisors in the area simultaneously. It is expected that improving education through classrooms will be effective and lead to student achievement. The 4th cohort of the program was completed on April 26, 2024, which was Phase 5, where participants reflected on the results and presented their school implementations for collaborative learning in different contexts. Those who completed the program will receive a certificate that can be used to apply for academic standing, which promotes the professional development of educational personnel and demonstrates a commitment to developing Thailand's education to be quality and sustainable.



# Strategic Issue 9: Internationalization

**Strategic Objective 4: Create Internationalization in Terms of Faculty, Staff, Students, and Environment (International Environment) and Promote the Visibility of Khon Kaen University on the Global Stage**

**OKR 67** Number of Non-Degree Students, Both Outbound and Inbound, at the Undergraduate and Graduate Levels, Increased from the Previous Year

1. Support exchange scholarships for students, both those going abroad to study and those coming to study at Khon Kaen University (Outbound & Inbound exchange fund). Increase the number of non-degree students, both Outbound and Inbound, at the Bachelor's and Graduate levels.
2. Support the development of the internal environment of the university to promote internationalization.
3. Promote universal competencies for personnel for internationalization.



**OKR 67** Number of Non-Degree Students, Both Outbound and Inbound, at the Undergraduate and Graduate Levels, Increased from the Previous Year

## Faculty and Graduate Students from Naruto University of Education, Japan Visit and Engage in Activities with Students

A team of faculty members and graduate students from Naruto University of Education, Japan, visited and engaged in activities with students from the Mathematics Education Program, Faculty of Education, Khon Kaen University, from February 18-21, 2024. The team consisted of 5 members:

1. Prof. Dr. Miyo AKITA
2. Assoc. Prof. Dr. Toru HAYATA
3. Tomoya EZOE (Graduate Student)
4. Ikumi OZAWA (Graduate Student)
5. Haruki KIMURA (Graduate Student)

On February 21, 2024, Associate Professor Dr. Maitree Inprasitha, Vice President for Academic Affairs and Acting Director of Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, welcomed Prof. Dr. Miyo AKITA and Assoc. Prof. Dr. Toru HAYATA from Naruto University of Education, Japan, on the occasion of their visit to Thailand. This visit was under the collaboration between Center for Research in Mathematics Education, Institute for Research and Development in Teaching Profession for ASEAN, and Naruto University of Education to bring graduate students to participate in activities with students from the Mathematics Education Program, Faculty of Education, Khon Kaen University.



## **OKR 67 Number of Non-Degree Students, Both Outbound and Inbound, at the Undergraduate and Graduate Levels, Increased from the Previous Year**

During February 18-20, 2024, Center for Research in Mathematics Education, together with Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, organized activities in the project "Investigative researches on the development of overseas training to raise the teachers with global perspectives." The objective was to exchange academic knowledge, promote educational professional development in Thailand, and build a collaborative network in teaching, research, and teacher professional development in mathematics education both domestically and internationally. The activities included joint development of learning management plans between students from Naruto University of Education and Khon Kaen University for actual teaching under the context of classrooms in Thailand and joint reflection, led by Prof. Dr. Miyo AKITA from Naruto University of Education, Japan, along with Assoc. Prof. Dr. Toru HAYATA and 3 graduate students. The activities were as follows:

- February 18, 2024: Jointly designed learning management plans at Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University. Faculty members and graduate students from Naruto University of Education and Khon Kaen University jointly selected activities to be used in classroom teaching.
- February 19, 2024 (Morning): Faculty members and graduate students from Naruto University of Education and Khon Kaen University, along with Deputy Director Manthana Kornkhunthot, Deputy Director of the Ban Chonnabot Community School, and Education Supervisor Kuson Chapanya, Education Supervisor of the Khon Kaen Primary Educational Service Area Office 2, observed and reflected on classes at Ban Chonnabot Community School, Chonnabot District, Khon Kaen Province:
  - Mathematics class for Grade 1 students, using the "Lucky Dice" activity, learning unit "How Much with How Much," taught by Teacher Pornkoch Kornvikchayut.
  - Mathematics class for Grade 4 students, using the "Which is Bigger?" activity, learning unit "Area," taught by Teacher Chutima Suwanlun.

(Afternoon): Faculty members and graduate students from Naruto University of Education and Khon Kaen University, along with Associate Professor Chumpon Ratchawichit, expert from Institute for Research and Development in Teaching Profession for ASEAN, jointly designed learning management plans, designing teaching sequences, planning the use of questions, the use of the board, and designing media for classroom use.

February 20, 2024 (Morning): Teaching experiment in the "How to Arrange Shapes" activity, taught by Mr. Haruki Kimura, graduate student from Naruto University of Education, and Mr. Sittichai Pol-Awut, graduate student from Khon Kaen University, at Ban Chonnabot Community School, Chonnabot District, Khon Kaen Province, using the learning plan that the team jointly designed during February 18-19, 2024. Joint reflection on the class by faculty members and graduate students from Naruto University of Education and Khon Kaen University, Associate Professor Chumpon Ratchawichit, and Education Supervisor Kuson Chapanya, Education Supervisor of the Khon Kaen Primary Educational Service Area Office 2.

(Afternoon): Cultural learning activities through art exhibitions and the development of the economy and society of the Northeast region and Khon Kaen Province through exhibitions at the Art and Culture Gallery, Khon Kaen University, and the Treasury Museum, Khon Kaen Province.

## **Student Exchange Program for Teaching Experience and Participation in Activities at Khon Kaen University Demonstration School, Secondary Level**

Student exchange program for teaching experience and participation in activities at Khon Kaen University Demonstration School, Secondary Level (Modindang) between February 16, 2024 – March 4, 2024, with 2 participants:

- Student 1: Name: Uchida Asaki, Affiliation: College of Education, School of Human Sciences, University of Tsukuba, Japan Year: 2nd year
- Student 2: Name: NGUYEN THI BOI TRAM , Affiliation: College of Japanese Language and Culture, School of Humanities and Culture, University of Tsukuba, Japan. Year: 1st year

The strategy of Institute for Research and Development in Teaching Profession for ASEAN is to create cooperation for academic strengthening and support the creation of guarantees that everyone has comprehensive and equal quality education, supporting lifelong learning opportunities (SDG4) and creating international cooperation for sustainable development (SDG17).



## **OKR 67 Number of Non-Degree Students, Both Outbound and Inbound, at the Undergraduate and Graduate Levels, Increased from the Previous Year**

As Khon Kaen University and the University of Tsukuba, Japan, have cooperated in developing the potential for academic strength and excellence, as well as promoting academic cooperation to create educational benefits and develop international relations in the exchange of resources in terms of faculty, educational personnel, students, information, and the implementation of other academic activities, with Institute for Research and Development in Teaching Profession for ASEAN and the Center for Research on International Cooperation in Educational Development: CRICED, UT, located at Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, providing support and coordination for driving such cooperation. Therefore, in order to upgrade academic cooperation in student exchange and to provide students with the opportunity to exchange learning in the development of the teaching profession and education management in the field of Japanese language teaching, the University of Tsukuba sent 2 exchange students for teaching experience:

1. Miss Uchida Asaki, a 2 year undergraduate student from the College of Education, School of Human Sciences, University of Tsukuba
2. Miss NGUYEN THI BOI TRAM, a 2nd-year undergraduate student from the College of Japanese Language and Culture, School of Humanities and Culture, University of Tsukuba

They participated in an exchange program for teaching experience and participation in activities at Khon Kaen University Demonstration School, Secondary Level (Modindang) between Friday, February 16, 2024 – Monday, March 4, 2024.

In this regard, the 2 exchange students for teaching experience have participated in the activities. The achievements from this exchange activity showed that:

1. Students practiced and learned Japanese language teaching as a foreign language to Thai students, who have a different classroom culture from classrooms in Japan.
2. Students practiced writing lesson plans on their own.
3. Students learned the process of measuring the achievement of the Japanese language course and found that the teaching and examination did not focus only on grammar or vocabulary, but also provided knowledge about the culture of Japan.
4. Students gained insights into designing lesson plans for teaching Japanese to learners who use Japanese as a second language.
5. Students exchanged cultures with Khon Kaen University students.
6. The Institute gained insights into developing and improving the scheduling of the project to be more efficient by preparing a long-term plan with the school so that students who travel for exchange teaching experience can prepare and plan teaching management that is consistent with the content or context of schools in Thailand.
7. The Institute has guidelines for preparing the information necessary for living for international students, to be used in preparing before traveling to exchange in Thailand.



## Student Exchange Program from Toho University

Khon Kaen University, through Institute for Research and Development in Teaching Profession for ASEAN, has agreed to cooperate with Toho University, Japan, since 2018 in jointly developing and promoting academic cooperation in the exchange of resources in terms of faculty, educational personnel, students, and to create educational benefits and develop relationships between the two universities.

Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, organized a cultural exchange program between faculty and students from Khon Kaen University and Toho University, Japan, between August 31 - September 4, 2024. Under the project, several academic activities were organized, including:

1. A workshop on the topic: "Comparing the biodiversity between Thailand and Japan" by the team of lecturers from Toho University, including Prof. Toshinobu Hatanaka, Prof. Daishi Yamazaki, Prof. Tsukasa Waki, on Monday, September 2, 2024, at Institute for Research and Development in Teaching Profession for ASEAN, which had over 80 interested participants registering to participate in the activities at the Institute, including students, teachers, and educational personnel.
2. Participation in observing a science class at the Primary Education Level 2 at Ban Thum (Thumprachasanukroh) School, Khon Kaen Province, on Tuesday, September 3, 2024.
3. Organizing STEM learning activities for students at Ban Thum (Thumprachasanukroh) School in the upper elementary level by students from Toho University on Tuesday, September 3, 2024.



## OKR 67 Number of Non-Degree Students, Both Outbound and Inbound, at the Undergraduate and Graduate Levels, Increased from the Previous Year

The workshop on the topic: "Comparing the biodiversity between Thailand and Japan" by the team of lecturers from Toho University, including Prof. Toshinobu Hatanaka, Prof. Daishi Yamazaki, Prof. Tsukasa Waki, on Monday, September 2, 2024, at Institute for Research and Development in Teaching Profession for ASEAN, and participation in observing a science class at the Primary Education Level 2 at Ban Thum (Thumprachasanukroh) School, Khon Kaen Province, on Tuesday, September 3, 2024, and the organization of STEM learning activities for students at Ban Thum (Thumprachasanukroh) School in the upper elementary level by students from Toho University on Tuesday, September 3, 2024. The student exchange program from Toho University between August 31, 2024 - September 4, 2024, had 18 exchange students as follows:

1. Ms. Miharu YAMAZAKI Toho University
2. Prof. Dr.Toshinobu Hatanaka Toho University
3. Prof. Dr. Daishi Yamazaki Toho University
4. Prof. Dr.Tsukasa Waki Toho University
5. Ms. Ayane NAGAMINE Toho University
6. Ms. Manami NISHIKAWA Toho University
7. Ms. Tamami NEMOTO Toho University
8. Ms. Yuki MATSUMURA Toho University
9. Ms. Nanaka KUBO Toho University
10. Mr. Kensuke KOGANEZAWA Toho University
11. Mr. Taisei TSUTSUI Toho University
12. Mr. Shuya RIKUKAWA Toho University
13. Mr. Hironari INOUE Toho University
14. Mr. Rikuto IMAI Toho University
15. Mr. Ryunosuke SAITO Toho University
16. Mr. Shota TAKEI Toho University
17. Ms. Honoka MIYAMOTO Toho University
18. Ms. Reona YOSHIDA Toho University



## Student Exchange Program from University of Tsukuba

Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, joins hands with the University of Tsukuba, Japan, to expand educational cooperation and develop international relations through student exchanges.

On September 16, 2024, Institute for Research and Development in Teaching Profession for ASEAN, Khon Kaen University, led by Assistant Professor Dr. Phongthanat Sae-joo, Acting Director of Institute for Research and Development in Teaching Profession for ASEAN, and Associate Professor Dr. Maitree Inprasitha, a highly competent researcher, along with the Institute's management team, welcomed 2 exchange students from the University of Tsukuba (University of Tsukuba: UT), Japan: Ms. Kumiko Yamada from College of Knowledge and Library Sciences, School of Informatics and Miss Keiko from College of Education, School of Human Sciences.

The objective of this exchange is to promote learning and development of the teaching profession, as well as education management in the field of Japanese language teaching. Students from the University of Tsukuba will participate in the project at Institute for Research and Development in Teaching Profession for ASEAN and Khon Kaen University Demonstration School, Secondary Level (Modindang) from September 15-30, 2024.

In addition to studying and learning about teaching, the exchange students also had the opportunity to participate in cultural exchange activities with first-year students majoring in Japanese language teaching, Faculty of Education, Khon Kaen University, which provided Khon Kaen University students with the opportunity to learn about culture and help understand the context of language use from native Japanese speakers, which will promote the development of Japanese language teaching skills and prepare them to be Japanese language teachers in the future more effectively.



**OKR 67** Number of Non-Degree Students, Both Outbound and Inbound, at the Undergraduate and Graduate Levels, Increased from the Previous Year

## Special Lecture and Workshop for Graduate Students and Student Teachers in Schools Using the TLSOA Innovation by Prof. Hideyo Emori, Otani University for Research and International, Japan

From March 25-27, 2024, there was a special lecture and workshop for graduate students and student teachers in schools using the TLSOA innovation by Prof. Hideyo Emori, Otani University, Japan, and Associate Professor Dr. Maitree Inprasitha, Vice President for Academic Affairs, Khon Kaen University, Acting Director of Institute for Research and Development in Teaching Profession for ASEAN, President of the Mathematical Education Society. Over 200 student teachers from various institutions across the country and over 50 graduate students from the Mathematics Education Program, Faculty of Education, participated, along with over 20 network teachers under the Mathematical Education Society.





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