

# CONFERENCE REPORT

**2nd International Conference on Multidisciplinary and  
Current Educational Research (ICMCER-2021)**

**23rd & 24th January, 2021**

**Organized By**

**Faculty of Education,**

**Mahachulalongkornrajavidyalaya University,  
Ayutthaya, Thailand**

**In Association with**

**Institute For Engineering Research and Publication  
(IFERP)**

## Conference Theme:

The theme of this conference revolves around bringing engineering, technology, and science research areas synchronically on an indivisible platform. This conference will draw collectively research fellowships from diverse fields in unitedness, to share their research findings and latest ideas. The main intention of this conference is to integrate interdisciplinary inquiry to deliver the best applications.

This convention will focus on strikingly advanced conditions in the distinguished developments of engineering, management and sciences and is foreseen to attract renowned experts from these specialties as well as lesser-known domains too. Participating in this conference will support participants and attendees in contemplating their proficiency to sharpen their abilities and improve their strategies using innovative approaches by interlacing with their associates and equals. Participants will likewise be allowed to connect with experts and prominent lecturers and share popular ideas and research outcomes with them.

## About MCU

### The Chronology of Mahachulalongkornrajavidyalaya University

- On September 13, 1896, His Majesty King Chulalongkorn the great, raised the status of Mahathat Witthahayalai to that of a royal college, under the title of Mahachulalongkornrajavidyalaya (Mahachulalongkorn Royal College), aimed at providing Tipitaka studies, and higher education, not only for monks and novices, but also for laypeople.
- On January 9, 1947, the chief abbot of Wat Mahathat, Phra Phimonlatham(Choi Thanadhatta thera), assembled fifty-seven senior monks of the Mahanikaya sect at Somdet's residence of Wat Mahathat to draft a new curriculum featuring Buddhist studies along university lines, which survives, with modifications, to the present day. Mahachulalongkornrajavidyalaya regulation 1847 was in use.
- On July 18, 1947, Mahachulalongkornrajavidyalaya opened a primary school and two years later, a secondary school. This was followed, in 1950 by the establishment of a faculty of Buddhist Studies at the undergraduate level.

- On May 16, 1969, Mahachulalongkornrajavidyalaya under royal patronage was officially recognized by the Supreme Sangha Council as an educational institutional for the Thai Sangha, located at Wat Mahathat.
- On June 7, 1978, Mahachulalongkornrajavidyalaya under royal patronage began regional expansion, by establishing a new campus in the Nong Khai province. By now, there are ten Campuses, along with seven Buddhist Colleges, seven Affiliated Institutes, ten Extended Classrooms and eighteen Academic Service Units.
- On September 27, 1984, the Thai Government issued a royal decree to according Bachelor degrees awarded by Mahachulalongkornrajavidyalaya under royal patronage equal status to those awarded by state universities.
- On September 21, 1997, the National Assembly of Thailand enacted a royal Act of Mahachulalongkornrajavidyalaya University to the effect that the University should become a legal entity under the supervision of the state.
- On July 9, 1999, the Mahachulalongkornrajavidyalaya University executive committee had an audience with His Royal Highness Crown Prince Maha Vajiralongkorn of Thailand. His Royal Highness granted to the University the title deeds to approximately thirty-three acres at Lam Sai sub-district, Ayutthaya province, that been donated by Dr. Ratsami and Khun Ying Sompong Wannisson.
- On December 13, 1999, His Royal Highness Crown Prince Maha Vajiralongkorn laid the foundation-stone of the new University main campus at Lam Sai sub-district, Wang Noi district, Ayutthaya province and during the following year, the construction of the new main campus was initiated by the Rector, Phra Dharmakosajarn (Prayoon Dhammacitto) and the executive committee of the University. At present, due to acquisition of further land, the site consists of some one hundred and twenty-nine acres.
- On February 23, 2001, Mahachulalongkornrajavidyalaya University formed affiliation with several institutes, starting the Buddhist Dongguk Chonbob College in South Korea. At present, there are six overseas Affiliated Institutes of the University.
- On October 1, 2008, the University relocated from Wat Mahathat and Wat Si Sudaram to the new main campus at Lam Sai sub-district, Wang Noi district, Ayutthaya province.

- On December 3, 2010, opening ceremony of the University main campus is presided over by His Royal Highness Crown Prince Maha Vajiralongkorn, at Lam Sai sub-district, Wang Noi district, Ayutthaya province.



## Welcome Message from Dean, MCU



**Associate Professor Dr. Phraratsutaporn**  
**Message from Dean,**  
**Faculty of Education, MCU.**

On behalf of ICMCER-2021 organizing team, I am honored and delighted to welcome you to The 2nd International Conference on Multidisciplinary and Current Educational Research (ICMCER-2021) to be held on 23rd & 24th January 2021 at Faculty of Education, Mahachulalongkornrajavidyalaya University with Institute For Engineering Research and Publication (IFERP), Chennai.

Any conference is intended for discussing lively and emerging issues of a particular educational domain and disseminating the awareness among other researchers and scholars. We have been witnessing the dramatic improvements in the field of Education and Multidisciplinary Technologies and applications. I hope ICMCER-2021 will become surely the most important International event and bring out latest trends in Multidisciplinary and Educational Innovation.

In order to provide an outstanding research level for the presentations at the conference, we have invited distinguished experts to participate in the program. We will have, plenary sessions by keynote speakers during 2 days of conference including the awards presentation during the closing session on the last day of the conference.

I hope ICMCER-2021 will make you to reflect yourself with state-of-the art and provide opportunity to discuss various educational issues and challenges including other sciences with multidisciplinary aspects.

### **Welcome Message from Conference Coordinator, MCU**



**Dr. Lampong Klomkul , Conference Coordinator**  
**Acting Director for Research, Information and Academic Services Division,**  
**ASEAN Studies Centre, MCU**

Dear Delegates and Colleagues,

It is a great pleasure and an honor to extend my warm invitation to all esteemed delegates to our upcoming the 2nd International Conference on Multidisciplinary and Current Educational Research (ICMCER-2021) to be held on 23rd & 24th January 2021 at Faculty of Education, Mahachulalongkornrajavidyalaya University with Institute For Engineering Research and Publication (IFERP), Chennai.

The theme of ICMCER-2021 ‘Conference on Multidisciplinary and Current Educational Research’ will underpin the need for participation in forums for collaborative Research and cooperation among individuals from a wide range of educational and technical backgrounds.

The ICMCER-2021 Conference will surely provide a wonderful debating platform for you to refresh your knowledge base and explore the innovations in education and multidisciplinary. The Conference will strive to offer plenty of networking opportunities, providing you with the opportunity to meet and interact with the educators and researchers.

We also look forward to your participation in oral presentations to share your educational research and multidisciplinary knowledge. I strongly believe that this International meet will provide a fantastic opportunity for global networking and fostering research collaborations within the worldwide innovation and education fraternity.

I hope you will join us for a symphony of outstanding Conference, and take time to enjoy the spectacular and unique beauty of Ayutthaya city and its surroundings.

## **KEYNOTE SPEAKERS**



**Prof. Dr. Phra Rajapariyatkavi**

**Rector  
Mahachulalongkornrajavidyalaya  
University,  
Thailand**



**Dr. Suneena Rasheed**

**Ph.D. in Education (Teacher Education,  
Practicum)  
Vice Rector,  
Avid College**



**Prof. SN Kulkarni**

**ADVISOR**

**Honourable Minister of Tribal Affairs, Higher & Technical Education,  
Government of Nagaland, India**

**CEO - Professor Kulkarni's Solutions Ltd.**

**Vice President - International Accreditation Organization (IAO) - Houston, Tx, USA**

**Former –Vice Chancellor – APG Shimla University, Himachal Pradesh**

**SESSION CHAIRS**



**Ashish K**

**Assoc. Professor,  
Electrical & Engineering Department,  
SISTEC-E, Bhopal  
Madhya Pradesh (India)**



**Dr. Shalini Aggarwal**

**Associate Professor  
Finance at Chandigarh University  
Alumni of IIM Ahmedabad.**





**Dr. L. Arun Raj**  
Associate Professor & Coordinator – Crescent  
MIS  
Department of Computer Science and  
Engineering  
B.S. Abdur Rahman Crescent Institute of  
Science and Technology, Chennai, India



**J. Saranya**  
Assistant Professor,  
VLAB Department Coordinator,  
Department of ECE,  
Rajalakshmi Engineering college,  
India



**Dr.D.Lakshmi**  
Educational Research Officer  
Vishnu Educational Development and  
Innovation Centre (VEDIC)  
Telangana, India



**Dr. D. Narendhar Singh**  
Associate Professor  
ECE Department,  
Anurag Group of Institutions  
Hyderabad, India





**Mathan Natarajamoorthy**

Assistant Professor  
Department of Electronics and Communication Engineering  
School of Electrical and Electronics  
Sathyabama University, Chennai, India

## **ORGANIZING COMMITTEE**

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**Chief Patron**

Dr. Phraratsutaporn  
Associate Professor  
Dean,  
Faculty of Education, MCU

**Patrons**

Phramaha Boonsuk Suddhiyano  
Assistant Professor  
Deputy Dean for Academic Affairs,  
Faculty of Education, MCU

Dr. Somsak Boonpoo,  
Associate Professor  
Deputy Dean for Administration,  
Faculty of Education, MCU

**Conference Coordinator**

Dr.Lampong Klomkul  
Acting Director for Research  
Information and Academic Services Division,  
ASEAN Studies Centre, MCU

**Conveners**

Dr. Peravat Chaisuk  
Head  
Department of Educational Administration,  
Faculty of Education, MCU

Dr. Boonmee Pansa

Asst. Prof. Head, Department of Curriculum and Teaching  
Faculty of Education, MCU

Miss Sayyud Mererk  
Head  
Department of Educational Psychology and Guidance,  
Faculty of Education, MCU

**Steering Committee Chair**

Dr. Phrakhrusophonphutthisat,  
Asst. Prof  
Vice-Rector for Public Relations and Dissemination,  
MCU

**Steering Committee Members**

Dr. Phrakrupaladmarut Varamangkalo  
Asst. Prof  
Faculty of Education,  
MCU

Dr. Thirayuth Puengthien  
Asst. Prof.  
Faculty of Education,  
MCU

Dr. Chatchai Pitakthanakom  
Assoc. Prof  
Faculty of Education,  
MCU

Dr. Udon Khiewon  
Lecturer  
Faculty of Education,  
MCU

**Delegates:**

No. of Papers received: 200+

No. of Registered participants: 150+

No. of Keynote Speaker: 3

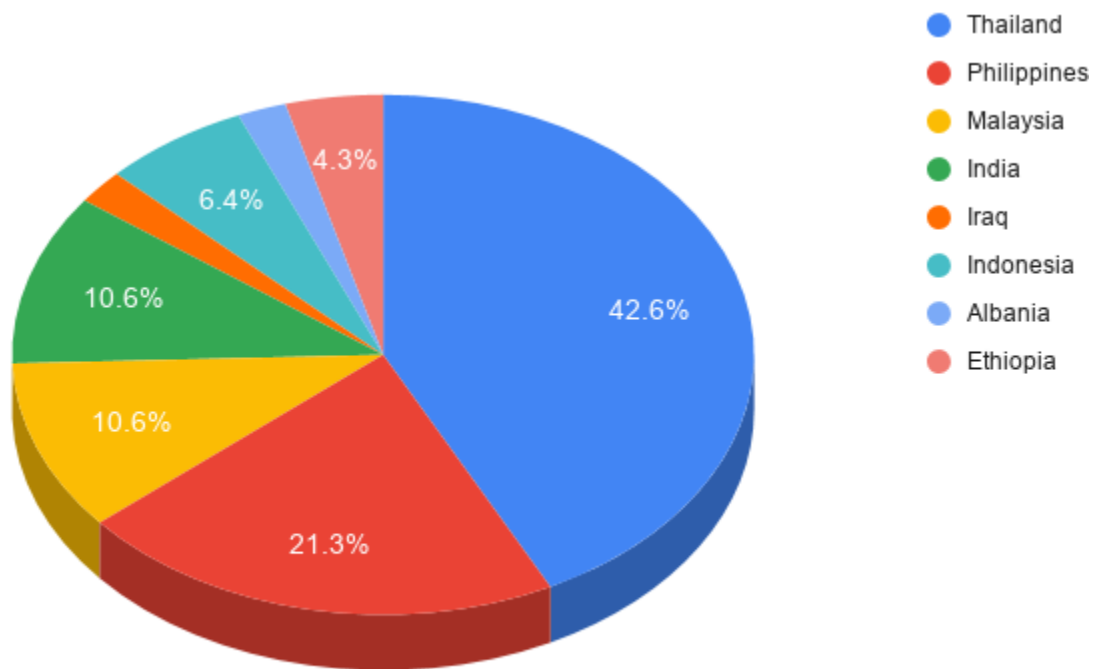
No. of Session chair: 7

## Conference YouTube Link

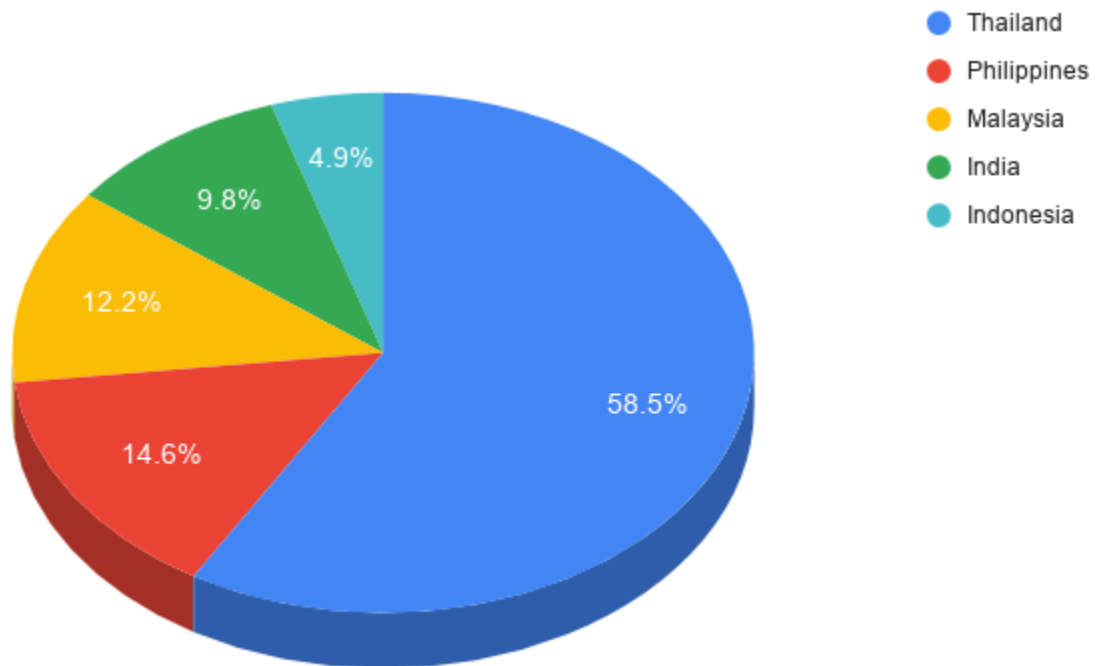
**Day 1:** <https://www.youtube.com/watch?v=xVqUbVObo8g>

**Day 2:** <https://www.youtube.com/watch?v=rScWC2fLPrk>

### PAPERS ACCEPTED BASED ON COUNTRIES



### **PAPERS REGISTERED FROM COUNTRIES**



## Conference Gallery







**IFERP**<sup>®</sup>  
connecting engineers...developing research



**ICMCER**



## 2<sup>nd</sup> International Conference on Multidisciplinary and Current Educational Research

**23<sup>rd</sup> & 24<sup>th</sup> January 2021**

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**Sponsored by**



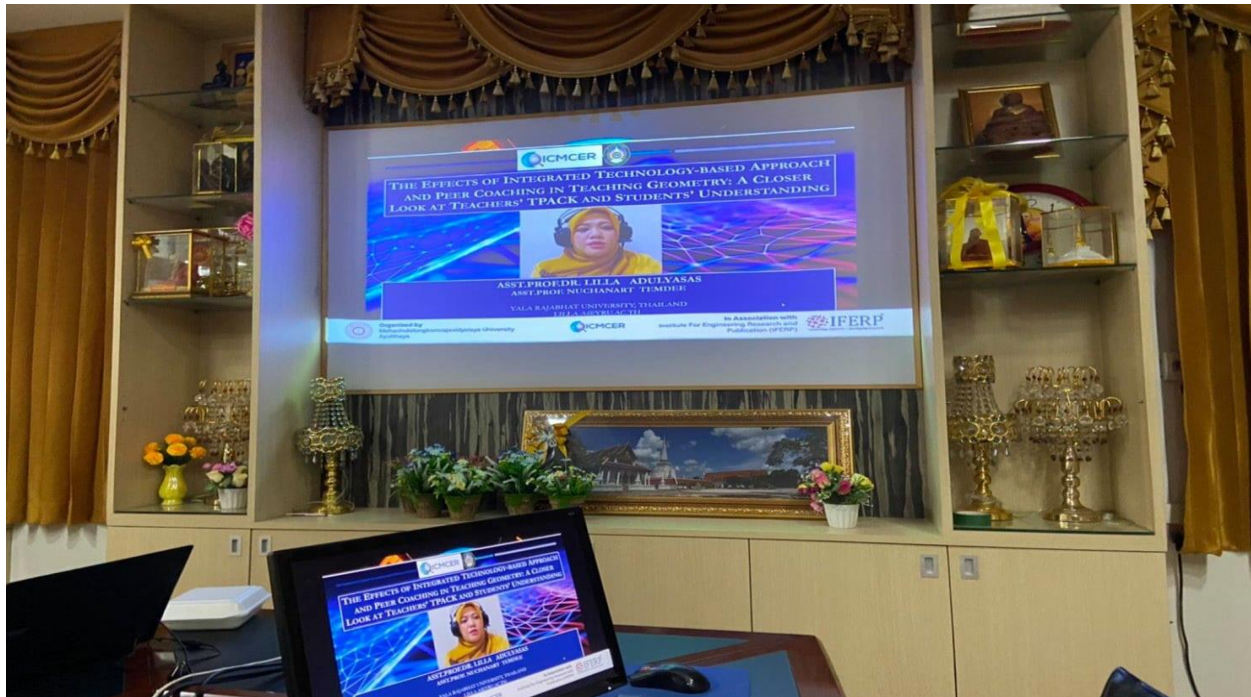
**Technoarete**<sup>®</sup>Group  
Integrating Researchers to Incubate Innovation











## AWARDS

### BEST PAPER AWARD

# 2<sup>nd</sup> International Conference on

## Multidisciplinary and Current Educational Research

23<sup>rd</sup> & 24<sup>th</sup> January 2021 | Mahachulalongkornrajavidyalaya University, Ayutthaya

<div style="display: flex; align-items: center;"> <div> <p><b>The Environment and Guidelines of Administration to Develop Innovators Among Secondary Science Teachers at Saint Gabriel's Foundation, Thailand</b> - Faculty of Education Chiang Mai University, Thailand</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Phongorn Kaewyongphang (Assistant Professor)</p> </div> <div style="text-align: center;"> <p>Dr. Monnapat Manokarn (Assistant Professor)</p> </div> <div style="text-align: center;"> <p>Dr. Yongyouth Yaboonhong (Assistant Professor)</p> </div> </div>	<div style="display: flex; align-items: center;"> <div> <p><b>A Causal Relationship Model of Factors Affecting Competitiveness of Community Enterprise in the Central Region</b> - Valaya Alongkorn Rajabat University under the Royal Patronage, Thailand</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Dr. Pinyapae Nakpibal (Assistant Professor)</p> </div> <div style="text-align: center;"> <p>Lalad Kajonpal (Assistant Professor)</p> </div> <div style="text-align: center;"> <p>Mrs. Pichayinee Choengkeeree Chaiya</p> </div> <div style="text-align: center;"> <p>Dr. Pompen Traiphong (Associate Professor)</p> </div> </div>
<div style="display: flex; align-items: center;"> <div> <p><b>Model of Activity Development to Promote Students' Morality in Primary School</b> - Mahachulalongkornrajavidyalaya University, Thailand</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Dr. Phrakrussongpattaravet (Respot Padhaniko)</p> </div> <div style="text-align: center;"> <p>Dr. Phrasuwanmahaphuthaphibal (Ho Subhaddo)</p> </div> <div style="text-align: center;"> <p>Dr. Phrakrussongpattaravet (Tharueti Virajano)</p> </div> <div style="text-align: center;"> <p>Dr. Phramaha Yinnawat Thiravaddhano (Assistant Professor)</p> </div> </div>	<div style="display: flex; align-items: center;"> <div> <p><b>The Use of Board Games to Develop English Vocabulary of Ornamental and Flowering Plants Sold in the Community of Primary 5 (Grade 5) Students at Nikornradburana School, Thailand</b> - Nikornradburana School, Thailand</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Monechany Keemuri</p> </div> <div style="text-align: center;"> <p>Pattaralee Naenon</p> </div> </div>
<div style="display: flex; align-items: center;"> <div> <p><b>Healthcare Service Quality Model in Private Hospitals</b> - Mahachulalongkornrajavidyalaya University, Thailand</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Dr. Rungroj Songsraboon</p> </div> <div style="text-align: center;"> <p>Dr. Jitavee Thongsiao</p> </div> <div style="text-align: center;"> <p>Dr. Phirapalad Somchai Damnoen</p> </div> <div style="text-align: center;"> <p>Phrakhrubaidika Theerayut</p> </div> </div>	<div style="display: flex; align-items: center;"> <div> <p><b>Computational Cost Reduction of Transaction Signing in Blockchain</b> - University of Phayao, Thailand</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Klaetkul Sooksomsatarn</p> </div> <div style="text-align: center;"> <p>Dr. Ian Welch (Associate Professor)</p> </div> <div style="text-align: center;"> <p>Dr. Sakorn Mekruksavanich (Assistant Professor)</p> </div> <div style="text-align: center;"> <p>Dr. Jansama Srihirun</p> </div> </div>



## **BEST PAPER PRESENTATION AWARDS**



**Socio- Political Education and Women Empowerment in Buddhist Perspective**  
- Mahamakut Buddhist University, Isan Campus, Thailand



Dr. Sirethiporn Khetjoi  
(Assistant Professor)



Dr. Phra Worachai Thasa



Phramaha Saccarak  
Ralsanguan



**Enhancing Electrochemical Signal Based on One-step Electrodeposition of PANI/PPY/AgNP/GR Nanocomposite on Screen-printed Gold Electrode for DNA Diagnosis Detection**  
- Yala Rajabhat University, Thailand



Orwan Thipmanee



**Development of Human Relations for the Happiness in New Normal Era**  
- Mahachulalongkornrajavidyalaya University, Thailand



Dr. Phrakrungsongseeravet  
(Tepol Padhaniko)



Dr. Phrakrungsongseeravet  
(Tepol Padhaniko)



Dr. Phrasuwanmahaphuthaphibal  
(Ho Subhaddo)



Dr. Peetrave Chatsuk  
(Associate Professor)



**Effect of Waste Plastic Oil on Engine Performance and Durability**  
- Pibulsongkram Rajabhat University, Thailand



Dr. Khongdee Phasinam  
(Associate Professor)



Thanwamas Kassaruk



**Influence of Zen Buddhism on Buddhadasa Bhikkhu**  
- Mahachulalongkornrajavidyalaya University, Thailand



Phramaha Surachal  
Phuechu



Winit Pharcharuen



Sirikanda Khamkaew



Noppadon Inping



**Lesson Learned - The Quality of Life Development and Income Enhancement for the Local Community Project from the Mission as a Higher Education Institute for Local Development of Phranakorn Rajabhat University**  
- Phranakorn Rajabhat University



Dr. Chanhana Udom



Phairoj Bluchiwat



Nongnuch  
Paiboonratnanon



Dr. Phrapalad Somchai Payogo  
(Damnoen)



**Mobile Application Development for Product Expiry Date Notification**  
- Yala Rajabhat University, Thailand



Ascharaporn Yokkhun



Pimponpun Leelapattaraporn



Soleah Kepan



Tuanpoema Tuankeotang



**Technological Innovation for Online Learning during the Situation of COVID-19 Pandemic in Thailand**  
- Mahachulalongkornrajavidyalaya University, Thailand



Dr. Phirarassuaporn  
(Associate Professor)



Dr. Lampong Kiamkul



Abdulfatah Yangoh