



13<sup>TH</sup> INTERNATIONAL CONFERENCE

# AC-ESI-2018

ACADEMIC  
CONFERENCE ON  
EDUCATIONAL &  
SOCIAL INNOVATIONS



**AC-ESI  
@2018  
MILAN.IT**

CO-ORGANIZED BY:

CO-SPONSORED:  
"THE EURASEANS -  
JOURNAL ON GLOBAL SOCIO-ECONOMIC DYNAMICS"

OFFICE OF GENERAL EDUCATION AND INNOVATIVE  
ELECTRONIC LEARNING, SUAN SUNANDHA  
RAJABHAT UNIVERSITY, BANGKOK, THAILAND

RUSSIAN PRESIDENTIAL ACADEMY OF NATIONAL  
ECONOMY AND PUBLIC ADMINISTRATION  
SOUTH RUSSIA INSTITUTE OF MANAGEMENT,  
ROSTOV-ON-DON, RUSSIA



**INTERNATIONAL ACADEMIC  
CONFERENCE ON  
EDUCATIONAL & SOCIAL  
INNOVATIONS**

**AC-ESI-2018**

**PROCEEDINGS**

**MILAN, ITALY**

**MAY, 2018**

Dear ladies and gentleman, participants of International Academic Conference on Educational & Social Innovations, academics and scholars, presenters of research centers, educational institutes and business!

Today, in the era of global innovatization, spreading of modern forms of business and public administration, the social and economic role of education for increasing global management competitiveness and self-sufficiency becomes a most important determinant, an effectiveness of international collaboration in discussing on actual educational issues and challenges is timely increasing.

And I would like to express my deep gratitude to partnered journals, educational institutions of Thailand, Russia, Indonesia, Germany, Iran, India, China whose efforts made possible this meeting of scholars and educators, interested in effective solution of global and national economy challenges using powerful resources of social, cultural and innovative success.

And, of course, I would like to thank all participants for coming here, for their wonderful and useful research.

I want to say, that Suan Sunandha Rajabhat University – as a leading public University of Thailand – is very proud to be an organizer of this significant and important conference.

To each participant I wish success, finding a new colleagues and friends, development of scientific and business contacts, new scientific discoveries that are benefit for society, business and government. And also enjoy your time in fashion and design capital of the world.



*Dr. Luedech Girdwichai, professor  
President of Suan Sunandha Rajabhat University  
Bangkok, Thailand*

On behalf of the Organizational Committee, I welcome you to International Academic Conference on Educational & Social Innovations, in Milan!

AC-ESI-18 attracts researchers, educators and practitioners in all fields of modern education and education institutes management.

Participants have found in these meetings an excellent opportunity to share their experiences with colleagues from distance places and often continued to cooperate with them on their subjects of interest.

AC-ESI – 2018 has been established on a global basis.

We have received more than 80 submissions from 12 countries, each submission was peer-reviewed by at least two anonymous reviewers and a total of 51 papers were accepted for presentation in the conference.

Accepted papers are scheduled for presentation in 5 big sessions.

We would like to express our sincere appreciation to all the reviewers and chairs and members of various committees of AC-ESI -2018 conferences for their precious time and expertise.

I would like to express our sincere gratitude to everyone involved in making the joint conference a success. Many thanks go to the organizing committee, special session organizers, and the organizational committees and reviewers, the conference participants, and of course, to all the contributing authors who will be sharing the results of their research.

It is our great pleasure to have you with us at the joint conference, where I hope new ties will be made and existing ones renewed and strengthened.

Please accept our best wishes for a wonderful stay in Italy!  
Grazie !



*Dr. Preecha Pongpeng*

*Director of Office of General Education and Innovative Electronic Learning  
Suan Sunandha Rajabhat University, Bangkok, Thailand*

Dear friends and colleagues!

This conference is a meaningful crystallization of international initiatives among the number of institution towards practical cooperation in interdisciplinary studies, which will be contribute to the strengthening of the national educational systems.

The characteristic of the education in our era is change at the speed of light, which led us to the consensus that experts from many countries and many different disciplines must meet and discuss the phenomena, and then suggest solutions. We should be able to delve deeper by discussing problems across different disciplines as widely as possible, and thus grasping more profound solutions and suggestions.

The motivation for this conference is to help one's country through offering individual expertise and point of view based on one's individual discipline. As we gather from many different countries and many different disciplines, I believe that we should be able to expand the scope of our efforts and must aim at more challenging global contributions.

I hope all the participants of this conference will enjoy and get opportunities to enhance relationships of knowledge exchange.

I would like to extend my sincere gratitude to the organizing committee and especially to my Thai colleagues for given abilities to be a co-organizer and member of organizational board of AC-ESI – 2018, to be involved in the process of new international tradition formation!



*Dr. Elena Zolocherskaya  
Russian Presidential Academy of  
National Economy and Public Administration,  
South Russia institute of management,  
Rostov-on-Don, Russia*

Welcome to International Academic Conference on Educational & Social Innovations!

As a co-organizer of AC-ESI-2018 we tried to make a conference aimed to create a strong platform for academic and educational international collaboration.

Sustainable economical development always requires a breaking of any boundaries between scientists, an increasing of international informational and technological exchange, new forms of cross-cultural and transnational collaboration.

Due to this I am very glad to see here, in hospitable Italy, presenters of dozens countries from four continents. It proves that our activity in a direction of common, global study of patters for effective, competitive and successful development of educational practices is important, is required by society, science and business.

Suan Sunandha Rajabhat University is strongly related with educational and science provision for progress of Thailand and AEC. Academics of our university conduct research in all areas of economical and social development of Thailand and ASEAN.

We are science partners with Thai Government, presenters of Thai and international business and non-governmental organizations. Active external collaboration of SSRU with educational and research centers of ASEAN, Europe, Australia and USA opens huge prospects of international science collaboration and science exchange.

Furthermore, for making our conference work more effective and memorable, we tried to provide maximum comfortable conditions for all our delegates.

Therefore, I hope that the AC-ESI-2018 will achieve all set objectives to provide our delegates with education, networking, leadership enhancement and sweet memories.



*Dr. Nattapong Techarattanased*

*Deputy director of Office of General Education  
and Innovative Electronic Learning  
Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

In the modern conditions world transfers from the multilevel system of national social systems with strictly identified boundaries of economical interests and kinds of international collaboration to the absolutely complicated mix of transnational business, national states and international organizations whose interests are actively interact, intersect, overlap and even conflict each other's! Private sector is effectively using advantages of educational and cultural globalization, is mostly able to create multilevel markets and complex market strategies, to spread internal corporative net-work outside – to the directions of states, customers of educational products, institutes and competitors.



It shows how important and how significant is international science collaboration, international research and discussions on different issues of actual education and social development. Practical experience in economical stimulation, reformation of educational systems, regional integration, governmental support of educational and research institutes, increasing of national external competitiveness is very difficult to over-evaluate.

Being an educational and science leader of Thailand and ASEAN, an effective example of business-government-science collaboration, Office of General Education and Innovative Electronic Learning at Suan Sunandha Rajabhat University is really appreciated to be a co-organizer and informational partner of Academic Conference on Educational & Social Innovations, to be involved in the processes of international science collaborations and innovative ideas' transfer! Hope these collaborations will have bright and significant prospects.

Finally, I would like to welcome all participants of AC-ESI – 2018 and to wish new science results and findings, ideas and conclusions!

*Dr. Jarumon Nookhong  
Deputy Director of Office of  
General Education and Innovative Electronic Learning  
Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

As a Member of Editorial board of Academic Conference on Educational & Social Innovations - 2018 I am delighted to welcome all participants in Milan!

The aim of AC-ESI- 2018 is to serve as a primary channel of knowledge sharing and the promotion of educational and social innovations internationally.

An important goal of the conference is to encourage learning from each other by exchanging ideas and views, and building networks.

A successful conference cannot be organized without the effort of many persons.

I would like to thank both working teams from the Office of General Education and Innovative Electronic Learning Suan Sunandha Rajabhat University and South Russia institute of management of Russian Presidential Academy of National Economy and Public Administration for their enormous contribution towards the detailed arrangement of this conference.

Furthermore, I would like to express my gratitude to the authors who submitted their papers to the AC-ESI 2018 as well as reviewers for their contributions and effort to an excellent conference proceeding.

Finally, I hope you will enjoy the conference and have a wonderful time during your stay in Italy.

*Warmest Regards,*

*Mr. Apisit Rattamanurak  
Deputy director of office of  
General Education and Innovative Electronic Learning  
Suan Sunandha Rajabhat University,  
Bangkok, Thailand*



Warm greetings from AC-ESI – 2018 organizing committee!

As a coordinator of our International conference organization I tried to do everything for making this year conference the best one!

We spent many hours for choosing venue; we spent gigabytes of internet traffic sending mails and calls for papers!

Hope, all these spent were not useless. And our conference will be very successful, productive and important for society, science and business.

I am glad to note, that a number of AC-ESI – 2018 participants is still high!

Geography of our conference is covered 9 countries from Asia, East Europe, Middle East and even Africa!

Enjoy Italian natural and cultural heritage, world most famous outlets and restaurants! Don't forget to taste risotto with local wine, visit Da Vinci museum and listen magic opera in La-Scala!

And to get new knowledge, new ideas and new friends from AC-ESI-2018!!!



*Dr. Denis Ushakov, professor  
AC-ESI – 2018 coordinator  
International college  
Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

AC-ESI-2018

## ORGANIZATIONAL BOARD

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INTERNATIONAL ACADEMIC CONFERENCE ON  
EDUCATIONAL & SOCIAL INNOVATIONS

AC-ESI - 2018 @ MILAN.IT

=AGENDA=

- Day 1** 07 May 2018  
Venue: Sheraton Milan Malpensa Airport Hotel, Italy  
13.00 Registration open Foyer  
14.00 Participants arrival, registration Meeting Room  
Organizational meeting  
Networking  
15.00 Seminar "International publishing: guidelines to success"  
By Ms. Darina Prokhorova  
17.00 Welcoming dinner  
Editor -in - chief of Journal of International Studies, Poland  
Restaurant

- Day 2** 08 May 2018  
Venue: Sheraton Milan Malpensa Airport Hotel, Italy Meeting Room  
9.00 Opening ceremony  
Welcome speeches:  
Dr. Preecha Pongpeng  
Director of Office of General Education and Innovative Electronic Learning,  
Suan Sunandha Rajabhat University, Bangkok, Thailand  
Dr. Zolochevskaya Elena  
Dean of faculty of Public Administration,  
South Russia Institute of Management of  
Russian Presidential Academy of National Economy and Public Administration  
Dr. Bundit Pungnirund  
Dean of College of Innovations and Management, Suan Sunandha Rajabhat  
University, Bangkok, Thailand  
Ms. Darina Prokhorova  
Editor -in - chief of Journal of International Studies,  
Poland  
Dr. Oleg Patlasov  
Omsk Humanitarian Academy, Omsk, Russia  
Dr. Denis Ushakov  
Organizational board of AC-ESI- 2018  
09.40 University's Management And Students' Satisfaction: An Empirical Study  
Through Structural Equation Modelling  
Key-note speech by Dr. Johan W de Jager  
Tshwane University of Technology,  
Pretoria, South Africa  
10.30 Group photo Foyer  
10.40 Coffee-break  
11.00 Formation of the Social Successfulness of Students with Disabilities in the  
System of Continuous Inclusive Education  
Key-note speech by Dr. Preecha Phongpheng  
Office of General Education and Innovative Electronic Learning Suan Sunandha  
Rajabhat University, Bangkok, Thailand  
11.40 Human capital and decentralization of education (the case of Tlajomulco de  
Zuniga Jalisco, Mexico)  
Key-note speech by Dr. José G. Vargas-Hernández  
University Center for Economic and Managerial Sciences,  
University of Guadalajara, México  
12.20 Educating Young People in Multicultural Environment of Higher  
Education Institution  
Key-note speech by Dr. Nattapong Techarattanased  
Office of General Education and Innovative Electronic Learning Suan Sunandha  
Rajabhat University, Bangkok, Thailand  
13.00 Lunch Restaurant

**Session 1 – Environmental education: ways and challenges of implementation**

- 14.00 Sinchai Poolkhai & Adisak Chuchat  
 14.20 Jürgen Drissner  
 14.40 Pattamaporn Kaewkongka & Apirati Triyawat  
 15.00 Wipada Chaiwchan & Kittipat Bualek  
 15.20 Kvetoslava Rešetová  
 15.45 **Coffee break**  
 16.00 Pawinee Ratabakorn & Uraivan Tunmukul  
 16.20 Anosha Rojanapanich & Prem Thanatripop  
 16.40 Pachara Wangmee & Worakarn Janiarasingham  
 17.00 Unnop Panpuang & Saysunee Sangphueak

Foyer

**18.00 Dinner**

Restaurant

**Day 3**

09 May 2018

Venue: Sheraton Milan Malpensa Airport Hotel, Italy

Foyer

**08.30 Registration open****09.00 Session 2 – Human capital: educational and managerial issues of formation and development**

09.00 Pramsuk Huanprapai &amp; Sasinan Prajongjai

09.20 Ria Mardiana Yusuf

09.40 Nattaporn Srichana &amp; Warawut Chuenkrut

10.00 Pordee Sukpun &amp; Paweena Sribunrueng

10.20 Aekaphob Intarapoo &amp; Pattiya Traiteepung

10.45 **Coffee – break** Foyer

11.00 Bundit Pungnirund

11.20 Sarawut Yamdee &amp; Supas Amornchantanakorn

11.40 Mahir Pradana

12.00 Pimporn Thongmuang

12.20 Larisa Neyskaya &amp; Svetlana Akhmetova

**12.40 Lunch**

Restaurant

**Session 3 – Modern teaching: modern technologies and practical methods**

13.30 Ketum Saraburin &amp; Narasak Phunaploy

13.50 Zhang Li-Ping

14.10 Watchara Sungkabol &amp; Sasiwimon Maneewong

14.30 Awad Soliman Keshta

14.50 Kanpetch Saranontawat &amp; Pimporn Thongmuang

15.10 Toratane Muneegumi

15.30 **Coffee – break** Foyer

15.50 Arias Sinthu &amp; Aknarin Piyaphanyamongkol

16.10 Nutecha Phasuk &amp; Natwalun Wangnil

16.30 Krit Chaisaengducan, Tospon Pimpa

16.50 Farangis Sacedi

17.10 Arunroong Wongkungwan &amp; Sathiya Phunaploy

**18.00 Dinner**

Restaurant

- Day 4** 10 May 2018  
Venue: Sheraton Milan Malpensa Airport Hotel, Italy  
Foyer
- 08.30 Registration open**
- 09.00 Session 4 – Management in educational institutes: modern issues and future prospects**
- 09.00 Pennapha Meeto & Raweevan Khankham
- 09.15 Amber Osman & Muhammad Imtiaz Subhani
- 09.30 Budit Phraprataporn & Kulnidawan Dumkum
- 09.45 Vera Gnevasheva
- 10.00 Yutana Rattanasuwan & Piyanun Thanchai
- 10.15 Ratanaporn Sukserm & Thidarat Choknakawaro
- 10.30 Juan Francisco Aguirre Chavez
- 10.45 **Coffee – break**
- 11.00 Supaporn Wimonchalerk & Rutchanewan Panbua
- 11.15 Runglaksamee Rodkam & Paphitchaya Siipaksa
- 11.30 Vanthangpui Khobung
- 11.45 Aina Jacob Kola
- 12.00 Paakpoom Klaiyong & Patcharida Wisaitket
- 12.15 Arun Sumdee & Anutsara Chanprapas
- 12.30 Lunch**
- 13.30 **Session 5 – Usage of ICT and social networking in educational process**
- 13.30 Kiatiphoom Phachuen
- 13.50 Chun-Pei Lin
- 14.10 Piched Girdwichai
- 14.30 Siriporn Meenanan & Naruecha Narapong
- 14.50 Atef Abuhmaid
- 15.10 Pirawat Chaiyaphoomsakul, Sawitree Charaporn & Apisit Rattananurak
- 15.30 **Coffee – break**
- 15.50 Nuntiya Noichun
- 16.10 Nuntinee Nakkontee & Patompong Punnabhum
- 16.30 Sudarat Srirama & Krisana Aree
- 16.50 Vasyuta Eugenia
- 17.10 Grigoryeva Natalya & Kolycheva Zhanna
- 17.30 Dinner**
- Awards and closing ceremony**
- Restaurant

## LIST OF SESSIONS:

- Day 2 Meeting room  
14.00-17.30
- Session 1**
- Environmental education: ways and challenges of implementation**  
Chairman: Dr. Jürgen Drissner  
Environmental education and behavioral change
- 1 Sinchai Poolklai  
Adisak Chuchat  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*
- 2 Jürgen Drissner  
*University of Ulm,  
Germany*  
Environmental education outside school: effects of a half-day teaching programme
- 3 Pattamaporn Kaewkongka  
Apirati Triyawat  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*  
"Public-based-learning": environmental controversies for pedagogical purposes
- 4 Wipada Chaiwchan  
Kittipat Bualek  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*  
Considering students' environmental self determination
- 5 Kvetoslava Rešetová  
*Slovak University of Technology  
in Bratislava, Slovakia*  
Publishing opportunities of doctoral candidates
- 6 Pawinee Ratabakorn  
Uraivan Tunmukul  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*  
Educational environment for teenagers' moral relations development
- 7 Anosha Rojanapanich  
Prem Thanatripop  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*  
Analyzing business factors of students' environmental attitudes
- 8 Pachara Wangmee  
Worakarn Jantarasingharn  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*  
Conceptual model for teaching the relationship of daily life and human environmental impact
- 9 Unnop Panpuang  
Saysunee Sangphueak  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*  
Sustainable development and teaching perspectives

Day 3  
09.00-12.30

## Meeting room

## Session 2

**Human capital: educational and managerial issues of formation and development**

Chairman: Dr. José G. Vargas-Hernández

Social capital and knowledge management in the context of staff empowerment

- 1 Pramsuk Huanprapai  
Sasnan Prajongjai  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

- 2 Ria Mardiana Yusuf  
*Hasanuddin University,  
Makassar, Indonesia*

The practice of human resource strategic roles by "Ulrich" model

- 3 Nattaporn Srichana  
Warawut Chuenkrut  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

Student's research work as the condition of professional education

- 4 Pordee Sukpun  
Paweena Sribunrueng  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

University students' entrepreneurial intentions: ways for in-study implementation

- 5 Aekkaphob Intarapoo  
Pattiya Traiteepung  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

Strengthening the basic competence of sciences for master students

- 6 Bundit Pungnirund  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

Interpersonal intelligence: how gender difference impacts?

- 7 Sarawut Yamdee  
Supas Amornchantanakorn  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

Egocentrism and development of students identity

- 8 Mahir Pradana  
*Telkom University, Bandung  
Indonesia*

Do employees' performances depend on their motivations? (case study at Indonesian National bureau of plantation)

- 9 Pimporn Thongmuang  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

Self-health care behaviors of elderly

- 10 Larisa Nevskaya  
Svetlana Akhmetova  
*Perm National Research Polytechnic University,  
Russia*

Current trends in the development of innovative activeness of enterprise personnel

Day 3  
13.30-17.30

## Meeting room

## Session 3

**Modern teaching: modern technologies and practical methods**

Chairman: Dr. Bundit Pungnirund

Problem based learning (PBL-civics) model development to improve the motivation and learning outcomes

- 1 Ketum Saraburin  
Narasak Phunaploy  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

- 2 Zhang Li-Ping  
*Yu Qi, Shanghai University of  
Engineering Science,  
Shanghai, China*

Study of cooperative education pattern

- 3 Watchara Sungkobol  
Sasiwimon Maneewong  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

Analysis of mathematical education on economics specialty

- 4 Awad Soliman Keshia  
*Islamic University of Gaza (IUG),  
Gaza, Palestine*

The effectiveness of a blended learning program on developing palestinian tenth graders english writing skills

- 5 Kametch Saranontawat  
Pimporn Thongmuang  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

Innovative methods of teachers' practice-orientation development

- 6 Toratane Munegumi  
*Naruto University of Education,  
Naruto, Tokushima, Japan*

Considering future directions for the specialized evaluation of educational programs for science teachers

- 7 Arias Sinthua  
Aknarin Piyaphanyamongkol  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

Dialogue-based teaching model in college English teaching

- 8 Nutchha Phasuk  
Natwalun Wangnil  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

Business field trips impact on education processes

- 9 Krit Chaisaengducan  
Tospon Pimpa  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

Project-based hybrid business education of graduate and undergraduate group

- 10 Farangis Saeedi  
*Gulian University, Rasht, Iran*

The effect of negotiation on second language acquisition

- 11 Arunroong Wongkungwan  
Sathiya Phunaploy  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

Environmentors: mentoring at-risk through university partnerships

Day 4 Meeting room

**Session 4**  
09.00-12.30  
**Management in educational institutes: modern issues and future prospects**

Chairman: Dr. Muhammad Imtiaz Subhani

- 1 Pemnapha Meeto  
Raweevan Khankham  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*
- 2 Amber Osman  
Muhammad Imtiaz Subhani  
*Iqra University, Karachi, Pakistan*
- 3 Buntit Phrapratanom  
Kulnidawan Dumkum  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*
- 4 Vera Gnevashveva  
*Moscow University for the Humanities,  
Moscow, Russia*
- 5 Yuttana Rattanasuwann  
Piyanun Thanchai  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*
- 6 Ratanaporn Sukserm  
Thidarat Choknakawaro  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*
- 7 Juan Francisco Aguirre Chavez  
*Autonomous University of Chihuahua,  
Chihuahua, Mexico*
- 8 Supaporn Wimonchaitlerk  
Rutchanewan Panbua  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*
- 9 Runglaksamee Rodkarn  
Paphitchaya Silpaksa  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*
- 10 Vanhangpui Khobung  
*Educational Research and Training, NCERT  
Bhopal, India*
- 11 Aima Jacob Kola  
*College of Agriculture, Igbokra,  
Oyo State, Nigeria*
- 12 Paakpoom Klaythong  
Patcharida Wisaikeit  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*
- 13 Arun Sumdee  
Anutsara Chamrapras  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*

Day 4 Meeting room

**Session 5**  
13.30-17.30  
**Usage of ICT and social networking in educational process**

Chairman: Dr. Atef Abuhmaid

- ✓ 1 Kiattiphoom Phachuen  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*
- 2 Chun-Pei Lin  
*Huaqiao University, Quanzhou, China*
- ✓ 3 Piched Girdwichai  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*
- 4 Siriporn Meenanon  
Naruecha Narapong  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*
- 5 Atef Abuhmaid  
*Middle East University,  
Amman, Jordan*
- 6 Pirawat Chaiyaphoomsakul  
Sawitree Charamporn  
Apisit Rattanarunak  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*
- 7 Nuntiya Noichun  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*
- 8 Nuntinee Nakdongee  
Patompong Pumabhum  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*
- 9 Sudarat Srirama  
Krisana Aree  
*Suan Sunandha Rajabhat University,  
Bangkok, Thailand*
- 10 Natalya Grigoryeva  
Zhamna Kolycheva  
*Southern University (IMBL), Russia*
- 11 Vasyuta Eugenia  
*Don State Technical University, Russia*  
*The Russian Presidential Academy Of  
National Economy And Public Administration,  
South Russia Institute of Management,  
Rostov-on-Don, Russia*

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## APPLICATION OF CLASSROOM ASSISTANT SOFTWARE BASED ON ANDROID

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*In society, the use of mobile technology as a link for efficient transmission of knowledge to achieve the time and geographical restrictions on the education model has become important and urgent task combined with the development needs of Thailand contemporary education with the popular application of mobile information technology and rapid development of mobile phone software. Development and application of class assistant software based on Android technology connects the application design techniques of the mobile phone with the current classroom management to provide a real-time communication platform effect between teachers and students. Our results show that the program exerts a significant effect in the online study. The platform is convenient for teachers and students to effectively teach and study to cause high efficiency development in the modernized education. The results suggest that platform in classroom assistant related mobile software may make the breakthrough progress in sight.*

**Keywords:** Android; classroom assistant; software; a real-time communication platform

### Introduction

The traditional teaching mode is not only inefficient but also a waste of time. Teachers usually have a lot of work tasks, if not recorded in time for some of the usual thought of teaching content, there may be some teaching information omitted. In addition, students and teachers after the class when the contact is not convenient. In other words, the teacher is also difficult to contact all the students.

There are some important information which is not promptly distributed to the hands of students on the class. Students gradually raise the awareness of active learning, They need a more free time and space constraints of free learning. Class teaching transform a simple teaching methods, for example, books or blackboard, into teaching mode combined with modern computer technology in the development of information technology.

The teaching mode enhance the interest of the classroom by the expression of the rich content and the vivid picture. The mode based on mobile technology can also improve the flexibility of teaching and the teaching method combining classroom teaching and mobile technology has attracted gradually attention with the development of mobile communication technology. Therefore, the widespread application and rapid development of mobile communication devices have also made it possible for the development of mobile-based learning. The development of mobile application software provides a real-time communication platform for students and teachers to help them to maintain the exchange of information. The platform can improve the efficiency of modern teaching.

### Functional Requirement

Understanding the analysis of mobile phone software for users of the demand is mainly concentrated in two aspects: First of all, the teachers often prepare some of the class materials and other materials that students prepare or preview things before the class. It is difficult for teachers to contact all students under the circumstances. The teachers always have some test question to need to answer for students.

The traditional way of sending papers is a waste of time. However, the use of mobile phone software can automatically determine whether students correctly answer questions by conveniently and fast. Secondly, because of the complexity of the course, students may be confused about the course time and place. Students often do not prepare enough contents to learn and the teachers often reminds the class to prevent the students from forgetting the materials before the class, or they sometimes do not remember or forget the homework. In addition, it is boring for students to accept the traditional and simple teaching methods.

### Function Module

The platform is based on the development technology of Android and the concept of PBL[4] approach. The project use the database of MySQL[5] to store data and Web Serve[6] to achieve data conversion. The system is divided into two clients: teachers and students. On the one hand, the teachers as clients includes the timetable query, add questions, send and receive papers, check the students answering the question, the issuance of notice, classroom assessment and personal information management functions. On the other hand, the students as clients includes curriculum query, online answers, scanning the wrong topic analysis, asking the teachers, receive notifications, classroom assessment and personal information management functions.

A. Login function module In different client login page, students and teachers log in with their own account. They can manage their own information. If you were new user, you can register in the page.

B. "Schedule inquiry" function module In the schedule inquiry module, teachers and students can individually check their information today including class time and classrooms. They can also view the information of this semester to avoid information forgotten.

C. "Paper" function module Teachers can view the history of the papers added, including a detailed description of each paper. They can not only view the information contained in each test paper. They can also add a new test paper including the development of the number of papers and scores and add the appropriate content for the examination papers. They choose the existing papers issued to the students, so that students to answer. The teachers can see the situation and scores of students answer and reply to the questions of the students. Students will receive the questions in the form of the message after teachers sending the test paper. They can answer questions directly and store own situation of answer. Students can view their own history of the problem scores and their own wrong questions. Teachers can help in time for the problem students not solved. In the examination papers module, the teacher can usually think of meaningful topics to record and even promptly issue to the students to do. Teachers will send the papers to students in the form of short messages, therefore students can do their homework at any time. At the same time you can view your answer records and wrong questions, and observe their own learning situation. Students can

also ask questions to the teachers at any time. They teachers can also understand the situation students turn over the papers and get the scores. It is an effective cycle for teachers to carry out the next phase of the design of teaching work basing on the data.

D. Notification module Notification module can develop to interactive between teachers and students. Teachers can send to students in the form of notice that students need to prepare the information before the class so that teachers can easily contact all the students. There will also be emergency situations, such as temporary changes to class locations or adjustment of class time. The information can be sent to all students in the form of a notice so that each student is notified to guarantee the course to go well on.

E. "Comment" function module The teacher can initiate a topic discussion for a specific performance of a classmate in the classroom. The students can express their views on the topic and can also express their views on the teacher's performance. They can also view others' evaluation of themselves. The interactive activities of classroom not only increase the interest of the classroom, but also mobilize the enthusiasm of the students, so that everyone can participate in classroom teaching to improve learning efficiency.

F. "Personal information" function module Students and teachers can manage personal information in the module. The mode provide convenience to the users.

### Summary

Personal wireless networks, mobile data and multimedia technology base on the basis of mobile education. Teachers and students more easily achieve interactive teaching activities through the use of mobile devices to assist teaching. The classroom-assisted software of basing on Android technology development and application platform plays an important role in the teaching process. The mobile application provides students and teachers with a real-time communication platform to help teachers and students keep the information exchange conveniently. The project can meet the needs of students online learning. The platform not only facilitate the teaching of teachers, and students can also learn whether anytime or anywhere. It is significant to greatly improve the efficiency of modern teaching.

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## INFORMATION AND COMMUNICATION TECHNOLOGY INTEGRATION WITHIN THE PRACTICUM

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*This study aimed at exploring the extent of Information and Communication Technology (ICT) utilization by Classroom Teacher program at the faculty of education at Isra University during the practicum. The sample of the study consisted of 77 student teachers who had made been enrolled and participated in field visits as part of the practicum as well as the five supervisors at Isra University. The findings of the study illustrated weaknesses in both student teachers' preparation courses on how to use ICT effectively across the curriculum, and ill execution of the practicum.*

**Keywords:** Practicum, Pre-service Teacher Education, ICT Training, Professional Development, Educational Technology

### Introduction

Information and Communication Technology (ICT) revolution has impacted every facet of education as well as all other social sectors. Rapidly, ICT is gaining ground in all aspects of education leaving no choice for schools and educational institutions but to try to find their ways in the face of this technological onslaught. However, education systems, as well as educational sectors within them, are widely varied in their responses and paces of adaptation.

As pressure has been mounting on education systems to respond effectively to technological changes happening beyond school walls, initiatives have been pouring into schools aiming to improve educational practices and outcomes to meet the demands and needs of the 21st century. In this context, over the last two decades teacher training has attracted more attention due to firstly, the failure of early attempts of excessive emphasis on technology itself to improve education, and secondly, the mounting literature stressing that educational improvement should go through teachers' consent, willingness, and competence [1, 36] as they are the primary agents of any educational change and the final arbiters of classroom practice [8, 13, 17, 47].

There has been increasing realization among educators and policy makers that teacher training – both pre and in-service – on ICT integration across the curricula is an essential component for ICT integration into education. In Jordan, schools countrywide have been provided with computer labs as part of the educational system's move to reforming schooling for the knowledge-based economy [1].

In parallel to the Ministry of education's efforts to empower schools with new technologies, teacher training has also attracted increasing appreciation and more emphasis. Several ICT-related training courses were adopted by the education system for in-service teachers. Nevertheless, in general teachers did not have adequate knowledge and skills of how to integrate ICT in the curriculum [1].