Journal of Education, Mahasarakham University

ISSN 1905-9922

Volume 12 Number 4 October-December 2018

Aim and Scope

To promote and disseminate academic results in the field of education, including research articles, book review articles, and review articles

Academic Revision

Double-blind peer-review

Publishing Type

Quarterly publishing No.1: January-March No.2: April-June No.3: July-September No.4: October-December

Ownership

Faculty of Education, Mahasarakham University Tambon Talat, Amphoe Mueang, Mahasarakham 44000 Tel. 0-4374-3143-4 Fax 0-4374-3174 Website: https://www.edu.msu.ac.th/journal

Advisor

Associate Professor Dr. Pacharawit Chansirisira Dean of Faculty of Education Mahasarakham University

Editor-in-chief

Associate Professor Dr. Prasart Nuangchalerm Mahasarakham University

Assistant-Editor

Dr. Titiworada Polyiem

Editorial Board

Professor Dr. Kriengsak Chareonwongsak Associate Professor Dr. Numphon Koocharoenpisal Associate Professor Dr. Sombat Tayraukham Assistant professor Dr. Chokchai Yuenyong Assistant professor Dr. Songsak Pusriaon Assistant professor Dr. Thatchai Chittranun Assistant professor Dr. Parichari Prasertsang Assistant professor Dr. Wanida Pharanat Associate Professor Dr. Athitouthay

> Associate Professor Dr. Jiri Dostal Dr. Belgin Bal Incebacak R. Ahmad Zaky El Islami

Institute of Future Studies for Development Srinakharinwirot University Mahasarakham University Khon Kaen University Mahasarakham University Mahasarakham University Rajabhat Roi-et University Rajabhat Mahasarakham University Chatouphonexay National University of Laos, Laos PDR Palacky University in Olomouc, Czech Republic Ondokuz Mayıs Üniversitesi, Turkey Universitas Sultan Ageng Tirtayasa, Indonesia

Secretary and Treasurer Mrs. Rungthip Singporn

The articles in Journal of Education, Mahasarakham University are authors'
own opinions. The editorial board has not always agreed absolutely with.
200 Baht (THB)Website: https://www.edu.msu.ac.th/journalDate of Publication: September 30, 30, 2018E-mail: journaled@msu.ac.th

Designed by:

Suannangsue: 189 Moo 12 Rachawadee Garden view, Thakhonyang, Khamreang, Khantarawichai, Mahasarakham 44150 Tel. 09-2956-2419

3

Guest Advisory Board

Professor Dr. Kriengsak Chareonwongsak Professor Dr. Preecha Pratapa Professor Dr. Duangduen Bhanthumnavin Professor Dr. Suthat Yoksan Professor Dr. Wannee Kaemkate Associate Professor Dr. Saroch Sopeluk Associate Professor Dr. Supitr Samahito Associate Professor Dr. Suowalak Rattanavich Institute of Future Studies for Development Mahasarakham University National Institute of Development Administration Srinakharinwirot University Chulalongkorn University Kasetsart University Srinakharinwirot University

Professor Dr. Paitoon Sinlarat Professor Dr. Rattana Buosonte Associate Professor Dr. Athithouthay Chatouphonexay Associate Professor Dr. Athithouthay Chatouphonexay Associate Professor Dr. BanJob Boonchan Associate Professor Dr. Kanokorn Somprach Associate Professor Dr. Jinawatara Pakotang Associate Professor Dr. Kochaporn Numnaphol Associate Professor Dr. Charin Manakhang Associate Professor Dr. Prasopsuk Rittidet Assistant professor Dr. Chokchai Yuenyong Assistant professor Dr. Chumnian Pollaharn Assistant professor Dr. Toansakul Santiboon Assistant professor Dr. Natchanok Jansawang Assistant professor Dr. Sattra Sahatsathatsana Assistant professor Dr. chaiyon Chansuai Assistant professor Dr. Somkiat Phornphisutthimas Assistant professor Dr. Parichari Prasertsang Assistant professor Dr. Sasithep Pitiporntapin Assistant professor Dr. Amnarj Chanawong Assistant professor Dr. Wichien Sithipraphaporn Assistant professor Dr. Luecha Ladachat Dr. Ritthikrai Chai-ngam Dr. Pitvck Vongvan Dr. Sirirat Nakin Dr. Kriangsak Srisombut

Peer Reviewers

Dhurakij Pundit University Naresuan University National University of Laos National University of Laos Nakhonratchasima Rajabhat University Khon Kaen University Ubon Ratchathani University Roi-et Rajabhat University Chiang Mai University. Rajabhat Mahasarakham University Khon Kaen University Rajabhat Mahasarakham University Rajabhat Mahasarakham University Rajabhat Mahasarakham University kalasin University kalasin University Srinakharinwirot University Rajabhat Roi-et University Kasetsart University Mahasarakham University Mae Fah Luang University School of Education, University of Phayao Mahasarakham University Institute of Physical Education-Chaiyaphum Nakhonratchasima Rajabhat University Rajabhat Roi-et University

4

Editor note

This is gone with our learning by the best, Journal of Education, Mahasarakham University has been published articles in field of education for 11 years. This issure, 16 articles are selected with strong and high quality of reviewing process. On behalf of editarial board, I would like to thanks honory reviewers for paying attention with improvement, management, time, and other supports.

Our journal with to do the best in the coming year as well as 2018 journal working. I would like to say "Happy New Year", wish all of related journal development to success.

Associate Professor Dr. Prasart Nuangchalerm Editor-in-chief



Contents

The Confirmatory Factor Analysis of Critical Thinking Disposition of Education Students	
Chotika Thamvsiet, Pasana Chularut, Wilailak Lanka, Pattananusorn Sathapronwong	
The Development of Thai Language Learning Activities on the Topic "Grade 1 Primary School Students' Word Reading and Writing through the use of Multimedia"	
Dhanita Doungwilai	
Applying Inner Wisdom to Amelioration Status of Major Depressive Disorder (MDD) for Elderly People Age Group in Mahasarakham Province	
Janphen Phusopha, Anusorn Saengprajak, and Pilin Thongkrom	
Needs Assessment to Enhance Self-discipline of Lower Secondary School Students in Opportunity Expansion Schools Affiliated to the Office of the Basic Education Commission <i>Kumpanat Boonthong, Kowat Tesaputa, Anan Sri-Ampai</i>	
Developing a System of Learning Management through Professional Learning Communities for Networks of Small Primary Schools Narit Phoo-Arram, Kowat Tesaputa, Kotchapon Namnapol	
Development of Supervision Model to Enhance Critical Thinking for Science Teachers in Expansion Schools in Thailand	
Ornuma Bowonsak, Pacharawit Chansirisira, Kanokorn Somprach	
Grade 1 Students' Basic Science Process Skills in the Encouraged Learning Inventory Based on the STEM Education Method	
Panwilai Dokmai and Runglawan La-umkha	
Integrating Technology into Project-based Learning in a Science Curriculum Development Course Pattamaporn Pimthong	
Thai Diving Instructor Usage of English Communication Strategies in Teaching Foreign Student Diverse	
Peewara Harnwongsa, Anyarat Nattheeraphong	
Coaching and Mentoring System for Educational Service Areas	
Permpoon Pongpuangpet, Tharinthorn Numwan	
The Development of model for Creating an English Handbook for Improving Thai Adults' Communicative English through the Use of Karaoke Technique	
Sattra Sahatsathatsana	
Assessing In-service Teachers' Self-efficacy and Beliefs about STEM Education	
Wachira Srikoom, Chatree Faikhamta	
The Development of Organic Agricultural Network to Market in School for Sustainable Community Wutthisak Bunnaen, Ongart Yatniyom	
A Development of Video Blog-Based Role Play Instructional Model to Improve Tourism Students' English Speaking Skills	
Annop Bunjan, Suksan Suppasetseree	
Using the Instructional Developing System with the Blended Learning Model according to Project-Based Learning for Enhancing Problem-Solving and Using Technological Skills of Secondary Students at the Grade 9 th under Mahasarakham Provincial Administrative	
Sangkhom Chaisongmuearng, Suttipong Hoxsuwan	
Developing the Mixed Learning Approach with the Problem-Based Learning Model for Enhancing Mathematics Process Skills of Primary Educational Students	
Khanitta Siriwongkhan	
Developing Community Health Conditions for Happiness in the province of Roi Et and Mahasarakham Thailand	
Chalard Chantarasombat	
Development of Innovative Community for Self-Reliance through Sufficiency Economy	
Chalard Chantarasombat, Chinawat Bubphawan and Charoonrat Songsri	