



ISBN: 978-93-86291-88-2

PROCEEDINGS OF
The IRES
INTERNATIONAL CONFERENCE



Date: 19th-20th March, 2017 | Venue: Oxford, United Kingdom

In Association With



PROCEEDINGS OF
THE IRES
64th INTERNATIONAL CONFERENCE
OXFORD, UNITED KINGDOM

ISBN- 978-93-86291-88-2

Organized by



Date of Event:
19th-20th March 2017

Event Co-Sponsored by



Corporate Address

Institute of Research and Journals
Plot No- 161, Dharma Vihar, Khandagiri, Bhubaneswar, Odisha, India
Mail: info@theires.org, www.iraj.in

Conference Committee

Program Chair:

Dr. P. Suresh

M.E, Ph.D. Professor and Controller of Examinations,
Karpagam College of Engineering.,
Coimbatore, India

Weera Chotithammaporn

Suan Sunandha Rajabhat University,
Thailand

Somkiat Korbuakaew

Suan Sunandha Rajabhat University,
Thailand

Somsakul Jerasilp

Suan Sunandha Rajabhat University,
Thailand

Conference Manager:

Mr. Bijan Kumar Barik

Mob: +91-9776047497

Conference Convener:

Miss. Priyanka Yadav, TheIRES

Mob: +91-7205807246

Publication and Distribution Head:

Mr. Manas Ranjan Prusty, IRAJ, India

INTERNATIONAL ADVISORY MEMBERS

Prof. Goodarz Ahmadi,

Professor, Mechanical and Aeronautical Engineering,
Clarkson University, USA

Dr Chi Hieu Le,

Senior Lecturer, University of Greenwich. Kent ME4 4TB.
United Kingdom

PROF. (ER.) Anand Nayyar

Department of Computer Applications & I.T.KCL Institute of Management and Technology, Jalandhar
G.T. Road, Jalandhar-144001,Punjab, India.

Prof. R. M. Khaire,

Professor, Dept. Of Elec. and Telecommunication,
B. V University, India

Dr. P. Suresh,

Professor, Karpagam College of Engineering, Coimbatore,Tamilnadu

Mark Leeson

Associate Professor (Reader)
Area of Expertise: nanoscale communications,
evolutionary algorithms, network coding and communication systems

Dr. P. K. Agarwal

Professor, Deptt. of Civil Engineering, MANIT Bhopal ,Ph. D: IIT Kanpur
M.E: Civil Engg.IIT Roorkee, Membership: Indian Road Congress (IRC), Institute of Urban Transport (IUT)

Shahriar Shabbazpanahi

Islamic Azad University, Department of Civil Engineering, Sanandaj, Kurdistan, Iran,
PhD (Structural Engineering),
University Putra Malaysia, Malaysia, 2009-Present

Harun Bin Sarip
Head of Research and Innovation Dept, UniKL-MICET
Doctorate: Université de La Rochelle, France, Member:
International Society of Pharmaceutical Engineer, Singapore Chapter

Dr. Bilal Ali Yaseen Al-Nassar
The World Islamic Sciences and Education University (WISE)
Faculty of Business and Finance
Department of Management, Information System (MIS), Amman- Jordan
Dr. Md. Al-Amin Bhuiyan
Associate Professor
Dept. of Computer Engineering
King Faisal University
Al Ahssa 31982, Saudi Arabia

Prof. (Er.) Anand nayyar
Department of Computer Applications & I.T.
KCL Institute of Management and Technology, Jalandhar
G.T. Road, Jalandhar-144001
Punjab, India

Prof. Aleksandr Cariow
institution or Company: West Pomeranian University of
Technology, Szczecin

Dr. P. K. Agarwal
Professor, Deptt. of Civil Engineering, MANIT Bhopal ,Ph. D: IIT Kanpur
M.E: Civil Engg.IIT Roorkee, Membership: Indian Road Congress (IRC), Institute of Urban Transport (IUT)

Dr. VPS Naidu
Principal Scientist & Assoc. Prof., MSDF Lab, FMCD
CSIR - National Aerospace Laboratories, Bangalore, India

Mr. P. Sita Rama Reddy
Chief Scientist ,Mineral Processing Department, CSIR - Institute of Minerals & Materials Technology
Bhubaneswar, India, M.Tech. (Chem. Engg., IIT, KGP)

Dr.P.C.Srikanth,
Professor & Head, E&C Dept, Mahad College of Engineering, Karnataka
Senior Member IEEE, Secretary IEEE Photonics Society,
M.Tech: IIT, Kanpur, Ph.D: In IISc Photonics lab

Prof. Lalit Kumar Awasthi,
Professor, Department of Computer Science & Engineering
National Institute of Technology(NIT-Hamirpur),
PhD, IIT, Roorkee, M. Tech, IIT, Delhi

Dr. Chandra Mohan V.P.
Assistant Professor, Dept. of Mech. Engg., NIT Warangal,
Warangal. Ph.D : Indian Institute of Technology(IIT),Delhi
M.B.A: Alagappa University

Prof. I.Suneetha,
Associate Professor, Dept. of ECE, AITS, Tirupati, India

Dr.s. Chandra Mohan Reddy,
Assistant Professor (SG) & Head,Dept. of Electronics & Communication Engineering, JNTUA College of Engineering, Pulivendula,
Ph.D,J.N.T. University Anantapur, Anantapuramu

Gurudatt Anil Kulkarni,
I/C HOD E&TC Department, MARATHWADA MITRA MANDAL'S POLYTECHNIC

EDITORIAL

It is my proud privilege to welcome you all to the TheIRES International Conference at Oxford, United Kingdom. I am happy to see the papers from all part of the world and some of the best paper published in this proceedings. This proceeding brings out the various Research papers from diverse areas of Science, Engineering, Technology and Management. This platform is intended to provide a platform for researchers, educators and professionals to present their discoveries and innovative practice and to explore future trends and applications in the field Science and Engineering. However, this conference will also provide a forum for dissemination of knowledge on both theoretical and applied research on the above said area with an ultimate aim to bridge the gap between these coherent disciplines of knowledge. Thus the forum accelerates the trend of development of technology for next generation. Our goal is to make the Conference proceedings useful and interesting to audiences involved in research in these areas, as well as to those involved in design, implementation and operation, to achieve the goal.

I once again give thanks to the Institute of Research and Journals, TheIIR, TheIRES & University of Management and Technology (Sialkot) for organizing this event in Oxford, United Kingdom. I am sure the contributions by the authors shall add value to the research community. I also thank all the International Advisory members and Reviewers for making this event a Successful one.

Editor-In-Chief

Dr. P. Suresh

M.E, Ph.D. Professor and Controller of Examinations,
Karpagam College of Engineering.,
Coimbatore, India



TABLE OF CONTENTS

SI No	TITLES AND AUTHORS	Page No.
01.	Traditionals Bills of Lading V. Electronic Bills Of Ladings: Pros and Cons and The Way Forward ➤ <i>Kamal Alawamleh</i>	1-3
02.	Solar Water Pumps For Agriculture ➤ <i>Chonmapat Torasa, Nichanant Sersri</i>	4-8
03.	The Impact on The Community Using Biogas Technology In The Community ➤ <i>Nuttida Chanhom, Prungsak Uttaphut, Tanaporn Pantuprecharat</i>	9-12
04.	Guidelines For OTOP Producer Development To The Standard System Of Environment Management ISO 14001 ➤ <i>Amon Lasomboon, Withaya Mekhum, Chananchida Yuktirat</i>	13-18
05.	Rooftop Solar PV Systems ➤ <i>Ratchasak Sannok</i>	19-22
06.	The Sustainable Development Of Community Product And Packaging By Creative Economy For Anghong Province ➤ <i>Suraphan Rattanavadi</i>	23-26
07.	Integrating Relationship Of The Five Elements In Creating Product Design Of Interior Decorative Souvenirs ➤ <i>Somsakul Jerasilp, Jong Boonpracha</i>	27-30
08.	Study Of Product Design: Perception Of Product Users In Functionality And Ability Of Products To Control Calories From The Elders' Meals ➤ <i>Patinya Sang-Aroon, Pakinsitiloetprasit</i>	31-33
09.	The Study Of South East Asian Carbon-Tapping Techniques And Kiln Design On Contemporary ➤ <i>Jiravut Doungin</i>	34
10.	Factors Affecting The Learning Achievement Motivation Of 4th Year Students In Mathematics, Faculty Of Education, Suan Sunandha Rajabhat University ➤ <i>Tanawat Srisirawat</i>	35-37
11.	Differentiation Of Aroma And Mood On Packing Design ➤ <i>Preechaya Krukaset</i>	38-40
12.	Design Guidelines For Mascot Of Northeast Of Thailand ➤ <i>Supatra Lookraks</i>	41-43

FACTORS AFFECTING THE LEARNING ACHIEVEMENT MOTIVATION OF 4TH YEAR STUDENTS IN MATHEMATICS, FACULTY OF EDUCATION, SUAN SUNANDHA RAJABHAT UNIVERSITY

TANAWAT SRISIRIWAT

Faculty of Education, Suan Sunandha Rajabhat University, Thailand
E-mail: tanawat_sr@ssru.ac.th

Abstract - The objective of this research was to study the factors affecting the learning achievement motivation of 4th year students in Mathematics, Faculty of Education, Suan Sunandha Rajabhat University. The sampling group was classified by 4th year students in Mathematics, Faculty of Education, Suan Sunandha Rajabhat University, by selecting a specific group of 65. The questionnaire was used as the data collection instrument. The statistical analysis used for analysis consisted of mean (\bar{X}), standard deviation (S.D.), percentage, and correlation (r) by using statistical software.

Most of the respondents were:

1. The factors affecting the learning achievement motivation of the samples were considered each part found that every factor was in high level. The attitude towards teaching profession was a high level, and in the most average. The family part and the friends part were followed respectively.

2. The factors positively associated with the learning achievement motivation of the samples. The learning conditions has positively related with the learning achievement motivation of the students in the highest level. The attitude towards teaching profession part and the family part have positively related with the learning achievement motivation of the students in low level, with statistically significant at the 0.01.

Keywords - Factor, Achievement Motivation

I. INTRODUCTION

Mathematics is a subject that is essential to the human thought development, that makes creativity, reasonable and systematic thinking about helping to plan and solve problems on a daily life. It also contributes to the development of the country. (Ministry of Education, 2009: 56).

The teaching in Mathematics should focus on students: to develop themselves continuously; to goal of teaching; to enthuse in learning and to strive working for developing profession and society continuously. It found that the students who have a low achievement; feel discouraged and disgusted, and have no motivation, no effort, no attempt, and no goals in learning.

This study found that the achievement motivation is an important factor to affect the success and it is the driving force within human that serves to encourage their commitment to work and learning, and to impel the self development. Which is consistent with KhianWanthaneeayatrakul (2010) said that the characters of a person with an achievement motivation and a high, have an ambitious target, a patience and a hope to succeed, and to attempt to treat own better things.

As a Mathematics instructor in the university, the researcher recognizes the importance of the learning achievement motivation and to be interested to study the factors that influence to the learning achievement motivation of 4th year students who are going to be a teachers. The result is going to provide more quality learning and teaching in the further.

II. RESEARCH OBJECTIVE

1. To study the factors that influence the learning achievement motivation several parts: the teaching, the attitude towards learning, the attitude towards teaching profession, family, friends of the students, in and the learning conditions.

2. To study the relationships between several factors: the teaching, the attitude towards learning, the attitude towards teaching profession, family, friends, and the learning conditions. The learning achievement motivation of the students were based on the goal of success, the intention of success working, and the patience and indomitable obstacles.

III. RESEARCH PROCESS

The target sampling was 4th year students in Mathematics (during the academic year of 2016), Faculty of Education, Suan Sunandha Rajabhat University in 65 samples. The tool for data collection was a questionnaire with the reliability coefficient (Alpha) found that is equal 0.974. The statistical methods are the average (\bar{X}), standard deviation (SD) and correlation coefficient (r).

IV. RESULTS

The analysis of the factors that influence the learning achievement motivation and the relationship between the learning achievement motivation of students, as results:

1. The analysis of the factors that influence the learning achievement motivation of the students, as results:

Table 1: Factors that influence the learning achievement motivation of students.

Subject	\bar{X}	SD	Meaning
Teaching part	3.70	0.56	High
Attitud towards learning part	3.71	0.54	High
Attitude towards teaching profession part	3.93	0.55	High
Family part	3.92	0.73	High
Friends part	3.86	0.61	High
Learning conditions part	3.68	0.72	High

From Table 1, factors that influence the learning achievement motivation of students is in a high for all parts. In each part, the attitude towards teaching profession is the most. The second are family and friends, respectively.

2. The analysis of the relationship of teaching, the attitude towards learning, the attitude towards teaching profession, family, friends, and the learning conditions with the study of the learning achievement motivation in the goals to success, the patience and indomitable obstacles, and the intention of successful working, as results:

Table 2: Correlation coefficient between different factors with the learning achievement motivation.

Factor	Learning Achievement Motivation	Relationship Level
Teaching part	0.751**	High
Attitud towards learning part	0.720**	High
Attitude towards teaching profession part	0.782**	High
Family part	0.569**	Medium
Friends part	0.603**	Medium
Learning conditions part	0.832**	High

** P <.01

From Table 2, found that all factors are positively related to the learning achievement motivation of the students, with statistically significant at the 0.01. The relationship between the learning conditions is positively related to the learning achievement motivation of students, is the highest ($r = 0.832$). The second are the attitude towards teaching profession ($r = 0.782$), and family are positively related in the lowest ($r = 0.569$).

CONCLUSION

The results found that the factors that influence the learning achievement motivation of the students, concluded.

1. Factors of teaching, the attitude towards learning, the attitude towards teaching profession, family, friends and the learning conditions, are high for all. The attitude towards teaching profession is the most. Upon all students have a basic requirement to be a teacher, have a faith and a positive attitude towards the teaching profession. By cause of teaching and education are an extremely proud, and to be a career that to make a benefit to society. As well as, the teaching profession trains to solve the problems carefully. Which is consistent with KanchanokPholchan et al (2014), found that student teacher's attitude towards the teaching profession is high. In addition, their families are a secondary important factor; with parental support for learning as well, expressed concern about well-being, trust and attention all the time. Which is consistent with RuethairatChidmongkolet a (2014), found that the relationship between students and parents is high.

2. Factor of the learning conditions is positively related to the learning achievement motivation of students in the most. If a classroom is cleansing and tidy, medias of teaching are clearly visible, or during teaching there is no nuisance from outside that would make an attraction for learning and a better understanding of the course content. This is consistent with KhianWanthaneeayatrakul (2010), said that the learning conditions was the outside factor that could drive the students' learning motivation. The providable environment for learning should be: suitable size of class, adequate light, no noise and smell to disturb learning, and enough available equipments. In the same way, Prametwatana-opas et al (2005), found that the factors that have positively related with achievement motivation of students, included the learning conditions, economic status of the students' family, owned conception, the relationship between students and their parents, the expectations of parents towards students, the relationship with fellow students, and the relationship between students and instructors.

SUGGESTIONS

The further research should be studied the other direct and indirect factors for getting the depth cause that will be used to develop the achievement motivation of the students.

ACKNOWLEDGMENTS

This paper was successful due to co-operation of many people both specialists and university students. The author would like to thank the Research and

Development Institute, Suan Sunandha Rajabhat University, Bangkok, Thailand, for their financial support and assistance.

REFERENCES

- [1] Ministry of Education. 2552. Core Curriculum - for Basic Education B.E.2551. Office of the Basic Education. Bangkok.
- [2] Kanchanok Pholchan et al. 2014. Attitudes toward Teaching Profession of Undergraduate Students in Mahasarakham University. Journal of Faculty of Education, Mahasarakham University.
- [3] Pramet Watana-opas, Napeorn Watana-opas, and Nitra Punjamas. 2548. Factors Affecting to Achievement Motivation in Students of Rajamangala University of

- Technology Suvarnabhumi, PhraNakhon Sri Ayutthaya Vasukri Campus. PhraNakhon Sri Ayutthaya: Rajamangala University of Technology Suvarnabhumi, PhraNakhon Sri Ayutthaya Vasukri Campus.
- [4] Pranee Lambensa. 2014. Factors Influencing to the Achievement Motivation of Students at Three of the Private Islamic School in Pattani Province. Thesis M.Ed. Evaluation and Research Studies : Prince Songkhla University.
- [5] Khian Wanthaneeyatrakul. 2010. Principles and Methods of Teaching. Chiang Mai :Mahamakut Buddhist University, Lanna campus.
- [6] Ruethairat Chidmongkol et al. 2014. Factors Affecting Achievement Motivation in Nursing Student at the Boromarajonani College of Nursing, Udon Thani. Nursing Journal, Ministry of Public Health.
