

**Topic of Agricultural Science****Room 1****12204****Chairman:** *Dr.Naruwat Pakdee***Co-Chairman:** *Assist. Prof. Dr. Jarinya Khoontawad*

<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Author</b>	<b>Sub track</b>
13.05 - 13.20 PM.	ASA-02	Effect of replacing soy bean meal with brewers' spent grains pellets in dairy feed on feed intake and milk production in dairy cow	Assoc. Prof. Dr. Chamnanwit Promkot	Agricultural Science - Animal Science
13.20 - 13.35 PM.	ASP-03	Effect of antibiotic for sterilization and culture condition on regeneration of <i>Molinaria latifolia</i> (Drayand. Ex. W. T. Aiton) Herb ex. Kurz. by using tissue culture	Dr. Wasana Phlaetita	Agricultural Science - Plant Science
13.35 - 13.50 PM.	ASP-04	The Efficiency of Mango Drying Process by Combined Microwave with Hot Air	MissWanchalee Pengpongsa	Agricultural Science - Plant Science
13.50 - 14.05 PM.	FPT-01	Using tamarind gum as gelling agent in pineapple jam	Mr.Tharakorn Suksrinuan	Food Processing Technology and Innovation
14.05 - 14.20 PM.	TTM-01	Preparation of gel from tamarind seeds and mangosteen peel extract	Misswipawan neelapong	Thai traditional medicine
14.20 - 14.35 PM.	STEM-01	STEM Junior High School Competition Using creative thinking in Project-Based Learning : Case Study	Mr.Prasong Bungjounpien	STEM Research

**Topic of Business, Management Finance and Accounting****Room 2****12301****Chairman:** *Asst. Prof. Dr. Phetphairin Upping***Co-Chairman:** *Asst. Prof. Dr. Arus Kongrungchok*

<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Author</b>	<b>Sub track</b>
13.05 - 13.20 PM.	BMA-01	Online Marketing Strategies that Influence the Purchasing Decisions of Generation C Consumers in Thailand	Mrs.Nongyao Intanam	Business, Management finance and Accounting
13.20 - 13.35 PM.	BMA-15	Vehicle Routing Problem of Garbage Trucks by Using Evolutionary Method: A case of Lat Sawai Subdistrict in Pathum Thani Province, Thailand	Miss Chayakarn Bamrungbutr	Business, Management finance and Accounting
13.35 - 13.50 PM.	BMA-18	Preferences for Studying Master of Accountancy (M.Acc.) at Rajamangala University of Technology Isan, Sakon Nakhon Campus	Miss Thanit Kesorn	Business, Management finance and Accounting
13.50 - 14.05 PM.	BMA-19	Key Audit Matter of the Auditor's report: A Case Study of Key Audit Matter in the Asset Categories of Listed Companies in the Stock Exchange of Thailand SET 100	Miss Savitee Budsri	Business, Management finance and Accounting

**Topic of Business, Management Finance and Accounting****Room 4****12306****Chairman:** *Dr. Wilaiporn HongKhunthod***Co-Chairman:** *Dr. Supawita intarapanich*

<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Author</b>	<b>Sub track</b>
15.15 - 15.30 PM.	BMA-05	Problems and the Guideline for Single Set Accounting Practice Development: A Case Study of SMEs in Sakon Nakhon	Asst. Prof. Dr. Phetphairin Upping	Business, Management finance and Accounting
15.30 - 15.45 PM.	BMA-10	The Worthwhileness Analysis of Big Banana Plantation in Upper South of Thailand	Assistant ProfessorDr. Arus Kongrunghok	Business, Management finance and Accounting
15.45 - 16.00 PM.	BMA-17	An Assessment Social Return on Investment Durian Long LabLae Comparing to Agro forest System and Mono-crop System at UTTARADIT Province	Doctorchichaya changrian	Business, Management finance and Accounting
16.00 - 16.15 PM.	BMA-20	Key Audit Matters and Audit Fees	MissChanpen Thongchai	Business, Management finance and Accounting

**Topic of Civil Engineering****Room 3  
12305****Chairman:** *Dr. Kowit Boonrawd***Co-Chairman:**

<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Author</b>	<b>Sub track</b>
15.15 - 15.30 PM.	CIE-01	The Petrography and Deformation of the Donchai Group Metamorphic Rocks in Muang Pan and Chae Hom Districts, Lampang Province	MissJiranan Homnan	Civil Engineering
15.30 - 15.45 PM.	CIE-04	STUDY AND ANALYSIS OF LOSS OF SOIL EROSION TO COMPARE THE UNIVERSAL SOIL LOSS EQUATION MODEL (USLE) AND THE UNIVERSAL SOIL LOSS EQUATION EXPERIMENT TEST (USLE) THEORY OF WISCHMEIR AND SMITH CASE STUDY OF LAM PHRA PHLOENG WATERSHED	Mr.Pongsakorn Lerpeepatworrapong	Civil Engineering
15.45 - 16.00 PM.	CIE-05	The Cenozoic leaf fossil in fluvial deposit and paleoclimate interpretation at Doi Ton Temple, Mae Sot District, Tak Province	Mr.Atiwut Bunlam	Civil Engineering
16.00 - 16.15 PM.	CIE-06	Petrography and Occurrence of Cenozoic Volcanic Rocks in Southern Margin of Khorat Plateau	Mr.Pitch Atayos	Civil Engineering
16.15 - 16.30 PM.	CIE-07	Undrained Shear Behavior of Cemented Clayey Sand-Recycled Asphalt Pavement Blends for Pavement and Railway Applications	Assistant DoctorJirayut Suebsuk	Civil Engineering
16.30 - 16.45 PM.	CIE-08	Properties of Chiang Khrua Lateritic Soil and Their Applications for Civil Engineering	DoctorNutthachai Prongmanee	Civil Engineering
16.45 - 17.00 PM.	CIE-09	Analysis Of Load-Displacement Characteristics Of Laterally Loaded Piles In Bangkok Clay	Mr.bhashkar PATHAK	Civil Engineering
17.00 - 17.15 PM.	GS-01	A review of using maximum likelihood classifier to identify land use/land cover	Mr.Uttaporn Lertaramsaeng	Geographical information Science

**Topic of Computer Engineering****Room 3  
12305****Chairman:** *Assoc. Prof. Dr.Somsak Mitatha***Co-Chairman:** *Asst. Prof. Dr.Chaleenuch Konchue*

<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Author</b>	<b>Sub track</b>
13.05 - 13.20 PM.	CE-02	3D Packaging Analysis and Design Practice System based on IoT	Misspatinya sangaroon	Computer Engineering
13.20 - 13.35 PM.	CE-04	Operational Efficiency of Face Recognition Algorithms on Raspberry Pi	DoctorKriangkrai Limthong	Computer Engineering
13.35 - 13.50 PM.	CE-07	Mobile X-ray tracking and monitoring system using the Internet of Things (IoT) technology.	Mr.Naratorn Sangprasert	Computer Engineering
13.50 - 14.05 PM.	CE-08	Automatic Plastic Washing Systems	Mr.Surasak Jabal	Computer Engineering
14.05 - 14.20 PM.	CE-09	License Plate Recognition using Image Processing and Deep Learning	Mr.Thanawat Phattaraworamet	Computer Engineering
14.20 - 14.35 PM.	CS-01	A Thai Ontology-Based for Diabetes Question and Answers	DoctorKetsara Phetkrachang	Computer Science
14.35 - 14.50 PM.	CS-03	A Model Web-enable for OLTP with Replication Realtime Distributed Database	MissKlaokanlaya Silachan	Computer Science

**Topic of Education****Room 4****12306****Chairman:** *Dr. Phichet Thebumrung***Co-Chairman:** *Dr. Somkait Mariphun*

<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Author</b>	<b>Sub track</b>
13.05 - 13.20 PM.	EDU-01	The Development of community learning and knowledge management model for handicraft community learning centre in songkhla province	Dr. akaya waeophakdi	Education
13.20 - 13.35 PM.	EDU-03	Guidelines for Building a Teacher Spirit of English Pre-Service Teachers with the Pre-Practicum Activity and the Satisfaction of Pre-Service Teachers, English Teachers, and the School Director	Miss Issariyapond Woragittanont	Education
13.35 - 13.50 PM.	EDU-04	Fighting the terrible paddy fields with safety glasses: STEAM activity design for secondary school students	Mr.Krittaphat Wongma	Education
13.50 - 14.05 PM.	EDU-06	A Survey of English Major Students' Needs, Difficulties, and Wants in English Language Learning at a Thai Government University	Mr.Nattapoom Khoomboon	Education
14.05 - 14.20 PM.	EDU-07	Design and development learning handout for Computer Programming Subject using Augmented Reality Technology of 3 Dimension on Illustration	Mr.Adul Thongkaem	Education
14.20 - 14.35 PM.	EDU-08	The Study of Image Compression Algorithms Using the Discrete Cosine Transform	Asst. Prof. Guntana Sukkaew	Education

**Topic of Electrical Engineering****Room 5****12401****Chairman:** *Asst. Prof. Dr. PornThep Panyakaew***Co-Chairman:** *Dr. Phichai Youplao*

<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Author</b>	<b>Sub track</b>
13.05 - 13.20 PM.	EE-01	Analysis of Brushed DC Motor in Electric Vehicle by Finite Element Method	Mr.Kantaphon Lonphon	Electrical Engineering
13.20 - 13.35 PM.	EE-02	Hydrogen waste incineration with solar energy	Mr.kitichoke prommaneewat	Electrical Engineering
13.35 - 13.50 PM.	EE-03	Performance Improvements in Small Rice Mill based on PDCA Method	Mr.Bunyarit Wangngnon	Electrical Engineering
13.50 - 14.05 PM.	EE-04	Analysis of Permanent Magnet Synchronous Generators by Finite Element Method	Mr.Kreangsuk Kraikitrat	Electrical Engineering
14.05 - 14.20 PM.	EE-05	Smart Monitoring and Security System for Home Appliances Control Based On Internet of Things	Mr.Aphirak Thitinaruemit	Electrical Engineering
14.20 - 14.35 PM.	EE-06	The study of continuous speech recognition in Thai using Mel frequency Cepstral coefficient extraction method	Mr.Supavit Muangjaroen	Electrical Engineering
14.35 - 14.50 PM.	EE-07	Semi-Automatic Tapping Machine Control Using Microcontroller	Associate DoctorPisit Phokharatkul	Electrical Engineering
14.50 - 15.05 PM.	EE-09	Practising the Embedded System Programming with Solar Cell Controlling Simulation Model According to the Sunlight Direction	Mr.Jirapol Pinthong	Electrical Engineering
15.05 - 15.20 PM.	EE-10	Smart control method to reduce the power loss of PV systems using ANFIS model with improving efficiency of MPPT	Mr.Nitikorn Junhuathon	Electrical Engineering
15.20 - 15.35 PM.	EE-11	Application of LabVIEW Program for the CUSUM Estimate and Steam-Fuel Ratio of Boiler.	Assistant ProfessorAdisak Khaengsarigid	Electrical Engineering
15.35 - 15.50 PM.	EE-12	The Appropriate $\alpha$ Value Gray Scale Threshold for Inspection Tangerine by Improve Median Filter	Mr.Ussadang Boonsri	Electrical Engineering

**Topic of Energy and Related Environment and Electronics  
and Telecommunication Engineering**

**Room 6  
12405**

*Chairman: Asst. Prof. Dr. Ravee Phromloungsri*

*Co-Chairman: Dr. Mati Nararom*

<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Author</b>	<b>Sub track</b>
13.05 - 13.20 PM.	ERE-01	A Simplified Model of Energy Performance Indicators (EnPIs) for Sustainable Energy Management	Mr.Vichan Nakthong	Energy and Related Environment
13.20 - 13.35 PM.	ERE-03	Design of Automatic Solar Panel Cleaner Prototype Controlled by the Arduino	MissPromphak Dawan	Energy and Related Environment
13.35 - 13.50 PM.	ERE-04	Comparative Study on the Performance of Heat Pump Dryer Using R410a and R32 as Refrigerant	Mr.Panuwat Ponwapee	Energy and Related Environment
13.50 - 14.05 PM.	ERE-06	Experimental Comparison Between CAV Control and CO2 Ventilation Control Approaches with respect to energy saving of Air Conditioner	Doctorniran watchrodom	Energy and Related Environment
14.05 - 14.20 PM.	ERE-07	Development of Bulk Thermoelectric Device	Mr.Kunchit Singsoog	Energy and Related Environment
14.20 - 14.35 PM.	ERE-08	Design and Construction of a Household Paddy Dryer with a Microcontroller	Mr.Boonyiam Yosrueangsak	Energy and Related Environment
14.35 - 14.50 PM.	ETE-02	Design and Development of Wheelchair Control by Microcontroller via Joystick	Mr.somkiat malipan	Electronics and Telecommunication Engineering
14.50 - 15.05 PM.	ETE-03	The Saline Drop Sensor and Wireless Emergency Alert	Mr.somkiat malipan	Electronics and Telecommunication Engineering
15.05 - 15.20 PM.	ETE-04	Multifunction CMOS signal converter circuit in current-mode	Mr.Bancha Burapattanasiri	Electronics and Telecommunication Engineering



**Topic of Industrial Engineering****Room 7****12406****Chairman:** *Dr. Seksun phunsuwan***Co-Chairman:** *Asst. Prof. Dr. Wisun Charee*

<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Author</b>	<b>Sub track</b>
13.00 - 13.15 PM.	IE-01	A Study of Feasibility of Magnetic Oscillate Gas Tungsten Arc Welding with Fluxed Core Filler Metal for Weldability Improvement	Mr.suriya prasomthong	Industrial Engineering
13.15 - 13.30 PM.	IE-02	AHP for Agricultural Delivery Option	Assistant DoctorAsawin Wongwiwat	Industrial Engineering
13.30 - 13.45 PM.	IE-03	Nanosecond pulsed laser scribing process for fluorine-doped tin oxide coated glass substrate	Mr.Nattawut Poowongsaroj	Industrial Engineering
13.45 - 14.00 PM.	IE-04	Tension and Temperature Affect Mechanical Properties on Wires Strand Process by the Taguchi method	Mr.Supat Silaloy	Industrial Engineering
14.00 - 14.15 PM.	IE-05	Efficiency Comparison the Electrical Power between Auto-moving Solar Panel with Fixed Solar Panel	Mr.Supat Silaloy	Industrial Engineering
14.15 - 14.30 PM.	IE-06	A Study the Efficiency of Color Laser Engraving Machine on 304 stainless steel	Miss Nunthiya Chuachainath	Industrial Engineering
14.30 - 14.45 PM.	IE-07	Radial Wear Testing Machine of ASTM G99	Miss Nunthiya Chuachainath	Industrial Engineering
14.45 - 15.00 PM.	IE-08	Preventive Maintenance for Stationary Fire Pump Horizontal Split Case Type	Miss Patsorn Anusornpornperm	Industrial Engineering
15.00 - 15.15 PM.	<b>Coffee Break</b>			
15.15 - 15.30 PM.	IE-09	Optimization of Electrical Wind Turbines A Case Study : Ranot, Songkla, Thailand	Miss Patsorn Anusornpornperm	Industrial Engineering
15.30 - 15.45 PM.	IE-10	Improving the Quality of Holes Depth with Laser Machine	Mr.Wuttichote Anusornpornperm	Industrial Engineering
15.45 - 16.00 PM.	IE-11	Tool Life Prediction of Wear Behavior by Monte Carlo Method	Mr.Wuttichote Anusornpornperm	Industrial Engineering
16.00 - 16.15 PM.	IE-12	Laser surface texturing of AISI 316L stainless steel for improved wettability	Miss supawan kringram	Industrial Engineering
16.15 - 16.30 PM.	IE-16	The effect of parameter on mechanical properties for tailor-welded blanks produced of AA7075 and AA6063 aluminium alloy by friction stir welding	Mr.suriya prasomthong	Industrial Engineering

**Topic of Industrial Engineering****Room 7****12406****Chairman:** *Dr. Seksun phunsuwan***Co-Chairman:** *Asst. Prof. Dr. Wisun Charee*

<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Author</b>	<b>Sub track</b>
16.30 - 16.45 PM.	IE-17	Effect of Welding parameter on Mechanical Properties for Aluminum Alloy and High Strength Steel by Resistant-Spot-Welding Joint	Mr.suriya prasmthong	Industrial Engineering
16.45 - 17.00 PM.	IE-18	Influence of aluminium alloy sheet on the Formability in <u>Single Point Incremental Forming Process</u>	Mr.suriya prasmthong	Industrial Engineering
17.00 - 17.15 PM.	ME-02	The Finite Element Simulation of Automotive Parts Fabricated from Carbon Fiber Reinforced under Impact	Dr. Nirut Onsalung	Mechanical Engineering

**Topic of Liberal art****Room 1****12204****Chairman:** *Asst. Prof. Dr. Surapha Somsai***Co-Chairman:** *Asst. Prof. Dr. Suchart Wannakaow*

<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Author</b>	<b>Sub track</b>
15.15 - 15.30 PM.	LA-01	The Development of Social Media Model for Promotion and Dissemination of Buddhism : A Case Study of Wat Phra Narai Maharat Worawihan, Nakhon Ratchasima Province.	MissPatteera Paekhonburee	Liberal arts
15.30 - 15.45 PM.	LA-02	Memory and Myth of “Male – Dominance” in Pre-Modern Thai Society: A Case Study of Dramas -“Buang”, “Phitsawat”, and “Saap Phoo Sa”	Mr.Panuwat Worajin	Liberal arts
15.45 - 16.00 PM.	LA-03	The study of Reading Comprehension ability of 3rd year English for international Communication students, Rajamangala University of Technology Issan, Sakon Nakhon Campus	Missathitaya unchanthee	Liberal arts
16.00 - 16.15 PM.	LA-06	Students’ Perspectives on Songs’ Inclusion in English Language Learning, Burapha University, Sakaeo Campus	Mr.Peeradej Koomwongthai	Liberal arts
16.15 - 16.30 PM.	LA-08	Improving Students’ Speaking Proficiency through Teaching Critical Thinking Skills: A Case Study of English Major Students	DoctorTeerawat Arjpru	Liberal arts
16.30 - 16.45 PM.	LA-09	The improvement of –st Final Consonant Blends by Using Mobile-Assisted Language Learning (MALL)	DoctorPenkhae Wongsuriya	Liberal arts
16.45 - 17.00 PM.	LA-10	A Pragmatic Analysis of the Use of Person Deixis in the Thai Movie First Love	MrsKwanrutai Sangsri	Liberal arts
17.00 - 17.15 PM.	LA-14	The Functions of Mass Communication in the Era of Digital Disruption as Expectation of people in Nakhon Ratchasima Province.	MissPratana Dejprasertsri	Liberal arts
17.15 - 17.30 PM.	LA-15	The Political Information as Needs of people in Nakhon Ratchasima Province.	MissAchiraya Supadej	Liberal arts

**Topic of Physics and Material Science****Room 2****12301****Chairman:** *Asst. Prof. Dr. Phanuwat Chaiyachet***Co-Chairman:** *Dr. Sudapun Ajkla*

<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Author</b>	<b>Sub track</b>
15.15 - 15.30 PM.	PMS-07	Facile synthesis of BiVO <sub>4</sub> visible-active photocatalyst via co-precipitation method	Mr.Chatpong Bangbai	Physics and Materials Science
15.30 - 15.45 PM.	PMS-09	Luminescence Properties of Dy <sup>3+</sup> ions doped in B <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> -CaO-Na <sub>2</sub> O Glass for Solid State Lighting Applications	Associate DoctorNarong Sangwaranatee	Physics and Materials Science
15.45 - 16.00 PM.	PMS-11	Determination of electrochemical active surface area of different physicochemical surfaces	Mr.Worapot Prongmanee	Physics and Materials Science
16.00 - 16.15 PM.	PMS-13	Gamma radiation hazard evaluation and excess lifetime cancer risk assessment in surface soil samples in Pluak Daeng district in Rayong province, Thailand	Assistant DoctorPrasong Kessaratikoon	Physics and Materials Science
16.15 - 16.30 PM.	PMS-19	Investigation of Electrodeposited Nano ZnO Photo Anode for Dye-Sensitized Solar Cell (DSSC) by using Natural Dye	Mr.Theerawut Sumpho	Physics and Materials Science
16.30 - 16.45 PM.	MS-01	On Some Properties and Sums of Pell, Pell-Lucas and Modified Pell Sequences	Assistant ProfessorSupunnee Sompong	Mathemtics and Statistics
16.45 - 17.00 PM.	MS-02	Application of mathematics through real life problems	MissTitikan Moonsan	Mathemtics and Statistics