

Program
**The 4th Virtual International Conference on Science and Agricultural
 Technology for Students (VICSAT 2024)**
Thursday, March 28, 2024

Time *	Events & Titles
08.00 – 08.45 a.m.	Room I: Registration
08.45 – 09.00 a.m.	Part I: Opening ceremony
	<p>Greetings from the 4th Virtual International Conference on Science and Agricultural Technology for Students Moderators: 1. Asst.Prof.Dr.Tanongsak Sassa-deepaeng: Rajamangala University of Technology Lanna, Lampang Campus, Thailand 2. Dr.Pornsin Keanthao: Rajamangala University of Technology Lanna, Phitsanulok Campus, Thailand</p>
	<p>Report of VICSAT 2024: Asst.Prof.Dr.Piyamas Tancharoenrat, Dean Faculty of Science and Agricultural Technology, Rajamangala University of Technology Lanna, Main Campus, Chiang Mai, Thailand</p>
	<p>Opening remarks: Asst.Prof.Dr.Jutturit Thongpron, Acting President of Rajamangala University of Technology Lanna, Thailand</p>
09.00 – 11.00 a.m.	Part II: Invited speaker presentations
Session I	<p>Chairperson for Invited speakers 1 and 2: Dr.Pornsin Keanthao, Rajamangala University of Technology Lanna, Phitsanulok Campus, Thailand Chairperson for Invited speakers 3 and 4: Dr.Pat Pranamornkit, Rajamangala University of Technology Lanna, Lampang Campus, Thailand Chairperson for Invited speakers 5 and 6: Dr.Seksan Wongsiri, Rajamangala University of Technology Lanna, Lampang Campus, Thailand</p>
09.00 – 09.20 a.m.	<p>Invited Speaker I: Nitrogen metabolism and new fertilization technique in soybean plants Prof.Dr.Takuji Ohyama: Faculty of Applied Biosciences, Tokyo University of Agriculture, Japan</p>
09.20 – 09.40 a.m.	<p>Invited Speaker II: Effects of maternal feed intake restriction on tissue energy metabolism and muscle fiber development in fetal and kid goats Assoc.Prof.Dr. Qiongxian Yan: Institute of Subtropical Agriculture, the Chinese Academy of Sciences, China</p>
09.40 – 10.00 a.m.	<p>Invited Speaker III: Cultural significance and livelihood sustainability: The role of Madura cattle in local communities Dr.Rizki Prafitri: Faculty of Animal Science Universities Brawijaya, Indonesia</p>
10.00 – 10.20 a.m.	Coffee break
10.20 – 10.40 a.m.	<p>Invited Speaker IV: Exploring antioxidant properties of Yacon leaf herbal tea as a health food in Japan Prof.Dr.Shin Yasuda: School of Agriculture, Tokai University, Japan</p>

10.40 – 11.00 a.m.	Invited Speaker V: Role of lactic acid bacteria in development of Thai traditional fermented foods: Case studies of plant-based fermented diets <i>Asst.Prof.Dr.Ni-orn Chomsri</i> : Agricultural Technology Research Institute, Rajamangala University of Technology Lanna, Thailand
11.00 – 12.00 a.m.	Invited Speaker VI: Cotton mutation breeding using iron-beam <i>Dr. Chhun Tory</i> : Prek Leap National Institute of Agriculture, Cambodia
11.20 – 12.30 p.m.	Lunch break
12.30 – 04.20 p.m.	Part III: Student presentations
Room I: Agricultural Technology	
Session I	Chairperson: <i>Assoc.Prof.Dr.Tossapol Moonmanee</i> Chiang Mai University, Thailand Secretary: <i>Dr.Sukanya Poolthajit</i> Rajamangala University of Technology Lanna, Lampang Campus, Thailand
12.30 – 12.45 p.m.	Supplementation of natural symbiotic from cocoa husk silage on production performance and egg quality in laying hen <i>Nonthapath Raunghora, Suthathip Chaiwong, Kanthaya Jintanuworakul, Natthakorn Chaiyasaen, Kitsanathon Sintala, Ratchanee Bourapa and Wuttikorn Srakaew</i>
12.45 – 01.00 p.m.	Effect of using bio-feed ingredient from water hyacinth (<i>Eichhornia crassipes</i> Mar) to optimize rumen fermentation <i>in vitro</i> gas technique <i>Atichat Tongnum, Wuttikorn Srakaew, and Hathaichanok Insoongnern</i>
01.00 – 01.15 p.m.	Effect of cordyceps mushroom waster medium and probiotics supplement dietary on quail egg quality of <i>Coturnix japonica</i> <i>Hathaichanok Insoongnern, Nontasak Piampol, Kanoknaphat Klinpakdee, Vutha Chhum Tipwadee Prapaiwong, Wansuree Pramuanasab and Watcharin Yuttavanichakul</i>
Session II	Chairperson: <i>Dr.M.Marjuki</i> Brawijaya University, Indonesia Secretary: <i>Assoc.Prof.Dr.Suntorn Wittayakun</i> Rajamangala University of Technology Lanna, Lampang Campus, Thailand
01.15 – 01.30 p.m.	The study of the number of chicks and feed tray ratio on growth efficiency and survival rate <i>Nonthasak Piemphon, Patcharee Jabkul, Narongsak Kaewwichian, Chanitha Simcharoen, Hathaichanok Insungnoen</i>
01.30 – 01.45 p.m.	Growth and yield performance of yellow corn (<i>Zea mays</i> var. <i>Indenata</i>) as influenced by the supplementation of black soldier fly frass to inorganic fertilizer <i>Albert Roy C. Sibuan and Bryl I, Manigo</i>
01.45 – 02.00 p.m.	Antibacterial activities of <i>Vatica diospyroides</i> Symington and <i>Cassia</i> sp. against multi-antibiotic resistant bacteria isolated from bullfrog <i>Soipet Tunchum, Somkiat Tunta, Pornpimol Julapan & Tanongsak Sassa-deepaeng</i>
02.00 – 02.15 p.m.	The effects of nutrient solutions on the vegetative growth of pepino in a hydroponic culture <i>Chorpaka Wongsorn, Chiti Sritontip, and Parinyawadee Sritontip</i>
Session III	Chairperson: <i>Assoc.Prof.Dr.Kecha Kuha</i> Ubon Ratchathani Rajabhat University Secretary: <i>Dr.Nateetip Sawatraksa</i> Rajamangala University of Technology Lanna, Lampang Campus, Thailand

02.15 – 02.30 p.m	The effect of black soldier fly larvae meal on PCV, serum protein, carcass quality and visceral organ in Pradu Hangdum chicken <i>Phumin Tha-eu, Natchanon Kamkla, Prapan Wareenyom and Duddoa Khonyoung</i>
02.30 – 02.45 p.m	Effects of IAA concentration from purple non-sulfur photosynthetic bacteria extract on seed germination of okra <i>Vob Men, Pitak Puttawanchai, Parichat Gleepnet and Piengpim Chidbure Thanawut Prombunchachai and Aphichat Chidburee</i>
02.45 – 03.00 p.m	Situation and trends of beef and dairy cattle raising in upper northern Thailand <i>Sukanya Poolthajit, Sippakon kumarbut, Thanat Tajaikad, Suntorn Wittayakun</i>
Room II: <u>Food Science and Technology</u>	
Session I	Chairperson: Asst.Prof.Dr.Ni-orn Chomsri Agricultural Technology Research Institute, Rajamangala University of Technology Lanna, Lampang, Thailand Secretary: Dr.Seksan Wongsiri Rajamangala University of Technology Lanna, Lampang Campus, Thailand
03.00 – 03.15 p.m.	Effect of substitution of wheat flour with cauliflower powder in tuile cookies <i>Kewalin Saelo</i>
03.15 – 03.30 p.m.	Effect of avocado flesh on the quality of Thai style custard cake <i>Donporn Wongwaiwech, Monthana Weerawatanakorn, Boondarick Rodbumrung, Surasawadee Paliphot, Supalak Wongkaunkae, Areeya Aroon, and Surasit Tongsa-ard</i>
03.30 – 03.45 p.m.	Product development of quick-cooking “Mali Nil Surin” organic rice with convenient preparation and valuable health benefit contents <i>Orathai Bunthawong, Juthatip Yathakham, Thiranard Jaima, Wimolrat Jaikhum and Pratsanee Kongwong</i>
03.45 – 04.00 p.m.	Process optimization of fermented tiger stripe peanut production <i>Sompohn Srakae, Panarin Preechawattanakorn, Piyanuch Niamsu, Chutamas Maneewong, Suphat Phongthai, Tomohiro Ikeda, Shin Yasuda and Pairote Wongputtisin</i>
Room III: <u>Computer Science</u>	
Session II	Chairperson: Asst.Prof.Dr. Nongnuch Ketui Rajamangala University of Technology Lanna, Nan Campus, Thailand Secretary: Aj.Wiraiwan Sanchana Rajamangala University of Technology Lanna, Thailand
04.00 – 04.15 p.m.	Place Around Me computer-assisted instruction for 3rd-grade students <i>Wachira Lawpradit, Wanchana Joobanjong, Tantikon Phumrean, Thanon Waikaew and Phinnapha Janthasree</i>
04.15 – 04.20 p.m.	Closing remarks

*Bangkok time