CENTRE OF EXCELLENCE IN MATHEMATICS

TABLE OF RESEARCH PROJECTS

Institute	Research Topic	Principal Researcher	Co-researchers and Institutes
Mahidol University	1. Mathematical modelling of bone formation and resorption: effects of parathyroid hormone and prolactin	Asst.Prof.Dr. Chontita Rattanakul	-
	2. The encapsulation of TiO ₂ into nanocapsules as a potential targeted drug delivery	Dr. Duangkamon Baowan	-
	3. Mathematical modelling of the cement flow in cemented hip replacement	Asst.Prof.Dr. Somkid Amornsamankul	-
Chiang Mai University	1. Mathematical modelling and statistical estimation of risk in economics	Dr. Rujira Ouncharoen	-
	2. Functorial properties of endo-Cayley graph constructions	Dr. Sayan Pannma	-
	3. Stability and controller design of dynamical systems and applications	Assoc.Prof.Dr. Piyapong Niamsup	Assoc.Prof.Dr. Radom Pongvuthithum Chiang Mai University
	4. Applications of geometric algebras to robot motion planning	Assoc.Prof.Dr. Sorasak Leeratanavalee	Dr. Chaiporn Thangthong Chiang Mai University Dr.Tippawan Puttasontiphot Chiang Mai University Dr. Thanasak Mouktonglang Chiang Mai University Dr. Natee Tongsiri Chiang Mai University
	5. The financial mathematics involving the option prices of the stock by applying the Black-Sholes equation	Prof. Amnuay Kananthai	Dr. Chaloampol Boonpok Chiang Mai University

	6. Using a multiple perspectives methodology to investigate tenth-grade student's representations	Asst.Prof.Dr. Pongchawee Vaiyavutjamai	-
Thammasat University	1. On the strong rates of convergence for arrays of rowwise negatively	Assoc.Prof.Dr. Kamon Budsaba	-
	dependent random variables		
Naresuan University	1. Bayesian propensity score analysis for determination of treatment effect	Asst.Prof.Dr. Katechan Jampachaisri	-
	of G-CSF in oncology patients obtained from observational study		
	2. Construction of optimal designs using optimization search algorithms	Dr. Anamai Na-udom	-
	3. Solutions of generalized variational inequality problems for fuzzy	Dr. Narin Petrot	Dr. Poom Kumam
	mappings and random mappings		King Mongkut's University of
			Technology Thonburi
			Asst.Prof.Dr. Hansuk Tasee
			Naresuan University
			Dr. Winate Sanhan
			Kasetsart University
Burapha University	1. Approximating fixed points of nonexpansive mappings in metric spaces	Asst.Prof.Dr. Attapol Kaewkhao	Dr. Anchalee Kaewcharoen
	and the stability of the market		Naresuan University
			Dr. Bancha Panyanak
			Chiang Mai University
Silpakorn University	1. Sequence spaces of operators on l_2	Dr. Jitti Rakbud	-
	2. Soil salinity profile in the western of Thailand	Asst.Prof.Dr. Suabsagun Yooyuanyong	-
Kasetsart University	1. Positivity of elements satisfying a third order recurrence relation	Prof.Dr. Vichian Laohakosol	Mr. Kantaphon Kuhapatanakul
			Srinakharinwirot University
			Miss Pinthira Tangsupphathawat
			Kasetsart University
Khon Kaen University	1. The distributional product of dirac's delta distribution in hypercone	Dr. Kamsing Nonlaopon	-
	2. Contructive methods in fixed point theory	Asst.Prof.Dr. Satit Saejung	Assoc.Dr. Somchit Chotchaisthit
			Khon Kaen University
	3. Investigation of geometric thinking based on semiotic activity in open-	Asst.Prof.Dr. Kiat Sangaroon	-
	approach context		
	4. Implementing lesson study and open approach for professional	Asst.Prof.Dr. Maitree Inprasitha	Assoc.Prof. Auijit Pattanajak
	development of		Khon Kaen University
	mathematics teachers		Dr. Kanokporn Changtong
			Ubonrajathani University

	5. Development of students' mathematical connection and mathematical creativity using open approach	Assoc.Prof.Dr. Suladda Loipha	Dr. Nongkhran Sasom Ubonrajathani University
Chulalongkorn University		Dr. Nattakarn Chaidee	-
	2. Connections between Cohen-Egyptian fraction and Engel series expansions and their dependent characterization properties	Dr. Tuangrat Chaichana	-
	3. Analysis of singularity curves	Asst.Prof.Dr. Songkiat Sumetkijakan	-
	4. Contractibility of fixed point sets through weak convergence sets	Assoc.Prof.Dr. Phichet Chaoha	-
	5. Geometry of planar soap bubbles for many areas	Asst.Prof.Dr. Wacharin Wichiramal	-
	6. Linear transformation semigroups containing $G_R(V, W)$ and admitting the structure of a semihyperring with zero	Asst.Prof.Dr. Sureeporn Chaopraknoi	-
Thaksin University	1. Mathematical modeling of wastewater filtration for the removal of heavy metal by zeolite	Asst.Prof.Dr. Konvika Kongkul	-
	2. Simple rings over which every cyclic singular right module is CS	Dr. Sarapee Chairat	-
	3. Developing algebraic reasoning in elementary school students : relational		
	thinking	Dr. Vishnu Napaphun	-
	4. A study and remedy for the deficiency of Thaksin University students in	A.Alongkorn Saetung	-
	learning derivatives and its applications		

King Mongkut's Institute of Technology Ladkrabang	1. Theories and methods of intelligent information systems	Assoc.Prof.Dr. Veera Boonjing	Ms. Jarunee Zalee King Mongkut's Institute of Technology Ladkrabang Ms. Jirapond Tadrat King Mongkut's Institute of Technology Ladkrabang Ms. Panida Songram King Mongkut's Institute of Technology Ladkrabang Asst.Prof. Supatra Sahapong King Mongkut's Institute of Technology Ladkrabang
Suranaree University of Technology	1. Applications of group analysis to stochastic differential equations	Prof.Dr. Sergey Meleshko	Dr. Boonlert Srihirun Kasetsart University
- Common gy	2. Analysis of credit risk by using FIGARCH diffusion model	Prof.Dr. Pairote Sattayatham	Asst.Prof. Pradit Wichai Rajchapat University loei Dr. Tidarut Plienpanich Suranaree University of Technology Mr. Artit Intrasit Prince Songkla University Pattani
Srinakharinwirot University	1. Some constructions of group divisible designs	Prof.Dr. Narong Punnim	Asst.Prof.Dr. Chariya Uiyyasathian Chulalongkorn University
Prince of Songkla	1 A scale of function space involving BV, phi	Dr. Varayu Boonpogkrong	
University Ubon Ratchathani University	1. A scale of function space involving BV_phi 1. Common fixed points of a new three-step iteration with errors for quasi- nonexpansive and asymptotically quasi-nonexpansive mappings in Banach spaces.	Dr. Hathaikarn Wattanataweekul	-
	Gesture in mathematical communication through open approach	Dr. Sasitorn Pasjuso	
	3. Developing a classroom community of inquiry by using T5 model	Dr. Supot Seebut	-

King Mongkut's University	1. Construction and finding the efficiency of computer aid instruction(CAI)	Assoc.Prof.Dr. Ungsana	Chundang	Assoc.Prof. Wipawaan Singpring
of Technology Thonburi	in the sequences and series of real numbers			King Mongkut's University of
				Technology Thonburi
				Assoc.Prof. Adisak Pongpullponsak
				King Mongkut's University of
				Technology Thonburi
				Asst.Prof. Tasanee Tantipisankul
				King Mongkut's University of
				Technology Thonburi
				Asst.Prof. Puchong Praekhao
				King Mongkut's University of
				Technology Thonburi
Suan Sunandha Rajabhat	1. Developing mathematical materials of fundamental analytic geometry and	Assoc.Prof. Ubol Klong	kratoke	-
University	conic sections using the Geometer's Sketchpad (GSP) in matthayomsuksa 4's			
	students			