

KONGUNADU ARTS AND SCIENCE COLLEGE

(Autonomous) Coimbatore – 641 029 Collaborative Research Work

Academic Year 2019-2020

S. No	Name and Designation of the Faculty	Name of Collaborator	Name and Place of the Collaborative Institution	Joint Research work/Title of the Research Article Published	Duration
1.	Dr. B. Gokul Assistant Professor Department of Physics	Dr.K.Asokan	Materials Science Division, Inter-University Accelerator Centre, New Delhi	Collaborative for research	August 2019
2.	Dr.M.Vigneshwaran Assistant Professor Department of Mathematics	Professor Saeid Jafari	Department of Mathematics, College of Vestsjaelland South, Herrestraede 11, 4200 Slag else, Denmark. &	Structural Equivalence between Electrical Circuits via Neutrosophic Nano Topology Induced by Digraphs	1 year
3.	Dr.M.Vigneshwaran Assistant Professor Department of	Professor Saeid Jafari	Department of Mathematics, College of Vestsjaelland South,	C# Application to Deal with Neutrosophicgα-Closed Sets in Neutrosophic Topology	1 year

	Mathematics		Herrestraede 11, 4200 Slag else, Denmark. &		
4.	Dr.M.Vigneshwaran Assistant Professor Department of Mathematics	Professor Saeid Jafari Dr.Sang Eon Han	Department of Mathematics, College of Vestsjaelland South, Herrestraede 11, 4200 Slag else, Denmark. & Department of Mathematics Education, Institute of Pure and Applied Mathematics, Chonbuk National University, Jeonju-Cit, Jeonbuk, 54896, Republic of Korea	Application of generalized open and closed sets in digital topological spaces	1 year
5.	Dr.M.Vigneshwaran Assistant Professor Department of Mathematics	Professor Said Broumi	Laboratory of Information Processing, Faculty of Science Ben M'Sik, University Hassan II, B.P 7955, Sidi Othman Casablanca, Morocco	Computer Application of Neutrosophic set operations	1 year
6.	Dr.M.Vigneshwaran Assistant Professor Department of Mathematics	Dr.Shuker Mohmood Khalil	Department of Mathematics College of Science University of Basrah Basrah, Iraq.	On N star g alpha continuity in Neutrosophic topological spaces	1 year
7.	Dr.M.Venkatachala	Raul M. Falcon	Department Applied	On the r-dynamic coloring of	1 year

	m Assistant Professor Department of Mathematics		Mathematics I, Universidad de Sevilla, Spain.	subdivision-edge coronas of a path	
8.	Dr.M.Venkatachala m Assistant Professor Department of Mathematics	R Adawiyah	Combinatorics Graph Theory and Network Topology (CGANT) research group University of Jember Indonesia Mathematics Education Department University of Jember, Indonesia	The local edge metric dimension of graph	1 Year
9.	Dr.M.Venkatachala m Assistant Professor Department of Mathematics	Muntaner - Batle, F A	Graph Theory and Applications Research Group, Faculty of Engineering and Built Environment, University of Newcastle, NSW 2308, Australia	Harmonious coloring of multicopy of complete graphs	1 Year
10.	Dr.M.Venkatachala m Assistant Professor Department of Mathematics	Prof. Dr. Ismail Naci CANGUL	Uludag University Faculty of Arts & Science Department of Mathematics Görükle, 16059 Bursa, Turkey	On r-dynamic colorings of the friendship graph families	1 Year
11.	Dr.N.Mohanapriya Assistant Professor Department of Mathematics	Dr.Johan Kok	Licensing services, Metro Police Head office, Tshwane, South Africa	On dynamic coloring of certain cycle- related graphs	1 Year

12.	Dr.N.Mohanapriya Assistant Professor Department of Mathematics	Professor Dafik	The Department of Mathematics Education Postgraduate The University of Jember, Jember, Indonesia	On r-dynamic coloring of snark graph families	1 Year
13.	Assistant Professor Department of Mathematics	Professor Dafik	The Department of Mathematics Education Postgraduate The University of Jember, Jember, Indonesia	On r-dynamic coloring of complete graph families	1 Year
14.	Dr. C. Ravichandran Assistant Professor Department of Mathematics	Professor Dr. Kottakkaran Sooppy Nisar,	Department of Mathematics, College of Arts and Sciences, Prince Sattam Bin Abdulaziz University, WadiAldawasir, Saudi Arabia.	Results on controllability of non-densely characterized neutral fractional delay differential system, Evolution Equations & Control Theory, 10.3934 /eect.2020083	1 Year
15.	Dr. C. Ravichandran Assistant Professor Department of Mathematics	Professor Dr. Juan Jose Nieto	Instituto de Matemáticas, Facultade de Matemáticas, Universidade de Santiago de Compostela, Santiago de Compostela 15782, Spain	New results on exact controllability of a class of fractional neutral integrodifferential systems with state-dependent delay in Banach spaces, Journal of the Franklin Institute 356(3), 2019, 1535-1565.	2 years
16.	Dr. C. Ravichandran Assistant Professor Department of Mathematics	Professor Dr. Dimplekumar Chalishajar,	Department of Applied Mathematics, Virginia Military Institute (VMI), 431, Mallory Hall, Lexington, VA 24450, USA	Existence of fractional impulsive functional integro-differential equations in Banach spaces, Applied System Innovation, 2(2), 2019, 18.	5 Months

17.	Dr. C. Ravichandran Assistant Professor Department of Mathematics	Professor Dr. Fahd Jarad	Cankaya University Yukariyurtcu Mahallesi Mimar Sinan Caddesi No:4,06790 Etimesgut/ Ankara/ Turkey.	New results on existence in the framework of Atangana-Baleanu derivative for fractional integrodifferential equations, Chaos, Solitons & Fractals, 125, 2019, 194-200.	6 Months
18.	Dr. C. Ravichandran Assistant Professor Department of Mathematics	Professor Dr. Zakia Hammouch	Department of Mathematics, Moulay Ismail University, Morocco.	New results on controllability in the frame work of fractional integrodifferential equations with nondense domain, The European Physical Journal Plus, 134(9), 2019, 441.	2 years
19.	Dr. C. Ravichandran Assistant Professor Department of Mathematics	Professor Dr. Devendra Kumar	Department of Mathematics, University of Rajasthan, Jaipur-302004.	Controllability on Non-dense Delay Fractional Differential System with Non- Local Conditions, Methods of Mathematical Modelling: Fractional Differential Equations, 2019, 219.	6 Months
20.	Dr. C. Ravichandran Assistant Professor Department of Mathematics	Professor Dr. Zakia Hammouch Professor Dr. Haci Mehmet Baskonus	Department of Mathematics, Moulay Ismail University, Morocco. Harran University, Faculty of Education, Sanliurfa, Turkey	A new investigation on fractional- ordered neutral differential systems with state-dependent delay, International Journal of Nonlinear Sciences and Numerical Simulation, 20(7-8), 2019, 803-809.	5 Months
21.	Dr. C. Ravichandran Assistant Professor Department of	Professor Dr. Manar A. Alqudah	Department of Mathematical Sciences, Princess Nourahbint	New results on Caputo fractional order neutral differential inclusions without compactness, Advances in Difference	6 Months

	Mathematics	Professor Dr. T. Abdeljawad	Abdulrahman University, Riyadh, Saudi Arabia Department of Mathematics and General Sciences,Prince Sultan University, Prince Nasser Bin Farhan Street, Salah Ad Din Riyadh 12435, Saudi Arabia. Department of Medical Research, China Medical University, Taichung, Taiwan. Department of Computer Science and Information Engineering, Asia University, Taichung, Taiwan.	Equations, 2019(1), 2019, 1-14.	
22.	Dr. C. Ravichandran Assistant Professor Department of Mathematics	Professor Dr. Haci Mehmet Baskonus	Harran University, Faculty of Education, Sanliurfa, Turkey	Existence results of Hilfer integro- differential equations with fractional order, Discrete & Continuous Dynamical Systems-S, 13(3), 2020, 911.	5 Months
23.	Dr. C. Ravichandran Assistant Professor	Professor Dr.Sumati	Department of Mathematics, GMR	A complex valued approach to the solutions of Riemann-Liouville integral,	6 Months

	Department of	Kumari Panda	Institute of Technology,	Atangana-Baleanu integral operator and	
	Mathematics	Professor Dr.	Rajam 532 127, Andhra	non-linear Telegraph equation via fixed	
		T. Abdeljawad	Pradesh, India.	point method, Chaos, Solitons &	
			Department of	Fractals, 130, 2020.	
			Mathematics and General		
			Sciences,Prince Sultan		
			University, Prince Nasser		
			Bin Farhan Street, Salah Ad		
			Din Riyadh 12435, Saudi		
			Arabia.		
			Department of Medical		
			Research, China Medical		
			University, Taichung,		
			Taiwan.		
			Department of Computer		
			Science and Information		
			Engineering, Asia		
			University, Taichung,		
			Taiwan.		
24.	Dr. C. Ravichandran	Professor Dr.	Department of	Nonlinear	5 Months
	Assistant Professor	Samiha	Mathematics, University	Generalized	
	Department of	Belmor	Mustapha Ben Boulaid,	fractional	
	Mathematics	Professor Dr.	Batna, Algeria	differential	
		Fahd Jarad	Cankaya University,	equations with generalized	
			Yukariyurtcu	fractional	
			Mahallesi	integral	
			Mimar	conditions,	
			Sinan	Journal of	
			Caddesi	Taibah	

			No:4, 06790,	University	
			Etimesgut	for Science, 14(1), 2020, 114-123.	
			/Ankara		
			/Turkey.		
25.	Dr. C. Ravichandran	Professor	Department of	Novel fixed point approach to	6 Months
	Assistant Professor	Dr.Sumati	Mathematics,	Atangana-Baleanu fractional and Lp-	
	Department of	Kumari	GMR Institute	Fredholm integral equations, Alexandria	
	Mathematics	Panda,	of Technology,	Engineering Journal, 59(4), 2020, 1959-	
		Professor Dr.	Rajam 532 127,	1970.	
		T. Abdeljawad	Andhra Pradesh, India		
			Department of		
			Mathematics and General		
			Sciences,Prince Sultan		
			University, Prince Nasser		
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			Din Riyadh 12435, Saudi		
			Arabia.		
			Department of Medical		
			Research, China Medical		
			University, Taichung,		
			Taiwan.		
			Department of Computer		
			Science and Information		
			Engineering, Asia		
			University, Taichung,		
			Taiwan		
26.	Dr. C. Ravichandran	Professor	Department of	New results on nonlocal functional	5 Months
	Assistant Professor	Dr.	Mathematics, College of	integro-differential equations via Hilfer	

	Department of Mathematics	Kottakkaran Sooppy Nisar,	Arts and Sciences, Prince Sattam Bin Abdulaziz University, WadiAldawasir, Saudi Arabia.	fractional derivative, Alexandria Engineering Journal, 59(5), 2020, 2891- 2899.	
27.	Dr. C. Ravichandran Assistant Professor Department of Mathematics	Professor Dr. Kottakkaran Sooppy Nisar,	Department of Mathematics, College of Arts and Sciences, Prince Sattam Bin Abdulaziz University, WadiAldawasir, Saudi Arabia.	Solutions to fractional neutral delay differential nonlocal systems, Chaos, Solitons & Fractals, 138, 2020.	6 Months
28.	Dr. C. Ravichandran Assistant Professor Department of Mathematics	Professor Dr. Kottakkaran Sooppy Nisar,	Department of Mathematics, College of Arts and Sciences, Prince Sattam Bin Abdulaziz University, WadiAldawasir, Saudi Arabia.	On new approach of fractional derivative by Mittag-Leffler kernel to neutral integro-differential systems with impulsive conditions, Chaos, Solitons & Fractals, 139, 2020.	6 Months
29.	Dr. C. Ravichandran Assistant Professor Department of Mathematics	Professor Dr. Kottakkaran Sooppy Nisar, Professor Dr.Sumati	Department of Mathematics, College of Arts and Sciences, Prince Sattam Bin Abdulaziz University, WadiAldawasir, Saudi	Existence of solutions of non- autonomous fractional differential equations with integral impulse condition, Advances in Difference Equations, 2020(1), 2020, 1-14. Department of Mathematics,	6 Months

Kumari Panda	Arabia	Government PG College, Bina, Sagar,	
Mr. Ashish	Department of	470113, Madhya Pradesh, India	
Kumar	Mathematics,		
Professor Dr.	GMR Institute		
Harsh	of Technology,		
Vardhan	Rajam 532 127, Andhra		
Singh	Pradesh, India.		
Chauhan,	Department of		
	Mathematics, University of		
	Delhi, Delhi, 110007, India		