KONGUNADU ARTS AND SCIENCE COLLEGE
(Autonomous)
Coimbatore – 641 029

Collaborative Research Work Academic Year (2022-2023)

S. No.	Name of the Faculty	Collaboration with	Name and Place of the Collaborative Institution	Joint Research work/Title of the Research Article Published	Duration
1.	**Dr. M. Santhoshkumar** Asst.Professor Department of Biochemistry (UG)	Dr. S. Divakar	JSS Pharmacy College, Ooty	"Side effects-based network construction and drug repositioning of ropinirole as a potential molecule for Alzheimer's disease: An in-silico, in-vitro and in-vivo study"	Since April 2023 (1 year)
2.	**Dr. K. Sowndhararajan** Asst.Professor Department of Botany	Prof. Songmun Kim	Department of Biological Environment, Knagwon National University, Chuncheon, South Korea	Essential Oils	Since January 2019
3.	**Dr. G. Dhandapani** Asst.Professor Department of Botany	Dr. Amit Roy	Head - Forest Molecular Entomology Lab, Faculty of Forestry and Wood Sciences, Czech University	RNAi and Functional Genomics in Insects	Since January, 2020

			of Life Sciences, Prague.		
4.	**Dr. G. Dhandapani** Asst.Professor Department of Botany	Dr. K. Vasanth	Department of Botany, Bharathiar University, Coimbatore- 641 046, Tamil Nadu.	Plant Tissue Culture, Genetic Transformation and Molecular Biology	Since December, 2019
5.	**Dr. G. Dhandapani** Asst.Professor Department of Botany	Dr. K. P. Raghavendra	Senior Scientist (Biotechnology), Division of Crop Improvement, ICAR - Central Institute for Cotton Research (CICR), Nagpur 440010, Maharashtra.	RNAi in Insect and Pests	Since January, 2023
6.	**Dr S Rajeshkumar** Asst.Professor Department of Botany	Dr J Selvaraj	Associate Professor, Department of Biochemistry, Saveetha Dental College and Hospital, Saveetha Institution of Medical and Technical Science, Saveetha University, Chennai 600 077.	Adjunct Faculty in the Department of Biochemistry. Research and Development	Since September 2021
7.	**Dr.K. Kannan** Asst.Professor Department of Zoology	Dr.E.Kssannapiran	Dept of Fisheries Science, Alagappa University	Taxonomy at Fishes	Since April 2022

8.	**Dr.C.Ravichandran** Asst.Professor Department of Mathematics	Thongchai Botmart	Department of Mathematics, Faculty of Science, Khon Kaen University, Khon Kaen 40002, Thailand.	Existence, uniqueness and approximation of nonlocal fractional differential equation of sobolev type with impulses	25 September 2022 to 06 December 2022
9.	**Dr.C.Ravichandran** Asst.Professor Department of Mathematics	Kottakkaran Sooppy Nisar	Department of Mathematics, College of Arts and Sciences, Prince Sattam bin Abdulaziz University, Wadi Aldawaser 11991, Saudi Arabia.	Existence, uniqueness and approximation of nonlocal fractional differential equation of sobolev type with impulses	25 September 2022 to 06 December 2022
10.	**Dr.C.Ravichandran** Asst.Professor Department of Mathematics	K. Kaliraj and M. Manjula	Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai 600 005, Tamil Nadu, India.	Existence, uniqueness and approximation of nonlocal fractional differential equation of sobolev type with impulses	25 September 2022 to 06 December 2022
11.	**Dr.C.Ravichandran** Asst.Professor Department of Mathematics	Ahmed Morsy and Kottakkaran Sooppy Nisar	Department of Mathematics, College of Arts and Sciences, Prince Sattam bin Abdulaziz University, Wadi Aldawaser 11991, Saudi Arabia.	Sequential fractional order Neutral functional Integro differential equations on time scales with Caputo fractional operator over Banach spaces	05 November 2022 to 27 December 2022
12.	**Dr.C.Ravichandran** Asst.Professor Department of Mathematics	Kottakkaran Sooppy Nisar	Department of Mathematics, College of Arts and Sciences, Prince Sattam bin Abdulaziz University, Wadi Aldawaser 11991, Saudi Arabia.	Existence results of Atangana-Baleanu fractional integro-differential inclusions of Sobolev type	2 October 2022 To 17 December 2022

13.	**Dr.C.Ravichandran** Asst.Professor Department of Mathematics	M. Sivashankar and S. Sabarinathan	Department of Mathematics, SRM Institute of Science & Technology, Kattankulthur 603 203, Tamil Nadu, India	Some properties and stability of Helmholtz model involved with nonlinear fractional difference equations and its relevance with quadcopter	March 2023
14.	**Dr.C.Ravichandran** Asst.Professor Department of Mathematics	Kottakkaran Sooppy Nisar	Department of Mathematics, College of Arts and Sciences, Prince Sattam bin Abdulaziz University, Wadi Aldawaser 11991, Saudi Arabia.	Some properties and stability of Helmholtz model involved with nonlinear fractional difference equations and its relevance with quadcopter	March 2023
15.	**Dr.C.Ravichandran** Asst.Professor Department of Mathematics	B.V. Senthil Kumar	Department of Mathematics, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai 602 105, Tamil Nadu, India	Some properties and stability of Helmholtz model involved with nonlinear fractional difference equations and its relevance with quadcopter	March 2023
16.	**Dr.C.Ravichandran** Asst.Professor Department of Mathematics	Kottakkaran Sooppy Nisar	Department of Mathematics, College of Arts and Sciences, Prince Sattam bin Abdulaziz University, Wadi Aldawaser 11991, Saudi Arabia.	High performance computational method for fractional model of solid tumour invasion	10 December 2022 to 2 March 2023
17.	**Dr.C.Ravichandran** Asst.Professor Department of Mathematics	P. Veeresha	Department of Mathematics, CHRIST (Deemed to be University), Bengaluru 560029, India	High performance computational method for fractional model of solid tumour invasion	10 December 2022 to 2 March 2023

18.	**Dr.C.Ravichandran** Asst.Professor Department of Mathematics	Panumart Sawangtong	Department of Mathematics Faculty of Applied Science and Research Group for Fractional Calculus Theory and Applications Science and Technology Research Institute King Mongkut's University of Technology North Bangkok Bangkok 10800, Thailand	Fractional Order Geminivirus Impression In Capsicum Annuum Model With Mittag-Leffler Kernal	February 6, 2022 to April 15, 2023
19.	**Dr.C.Ravichandran** Asst.Professor Department of Mathematics	Kottakkaran Sooppy Nisar	Department of Mathematics College of Science and Humanities in Alkharj Prince Sattam Bin Abdulaziz University Alkharj 11942, Saudi Arabia School of Technology, Woxsen University Hyderabad 502345, Telangana, India	Fractional Order Geminivirus Impression In Capsicum Annuum Model With Mittag-Leffler Kernal	February 6, 2022 to April 15, 2023
20.	**Dr.S.P.R.Priyalatha** Asst.Professor Department of Mathematics	T. Witczak	Institute of Mathematics, University of Silesia, Bankowa 14, Katowice, Poland.	On Nano Soft s (I)-Continuous Functions	6 Months
21.	**Dr.L.Vidyarani** Asst.Professor Department of Mathematics	Tomasz Witczak	Institute of Mathematics, University of Silesia, Bankowa 14, Katowice, Poland.	Binary Minimal Structures Standard and Cross Picture Topological Space	June 2023 6 Months (ongoing) June 2023 6 Months (ongoing)
22.	**Dr.N.Mohanapriya** Asst.Professor Department of Mathematics	Ika Hesti Agustin	PUI-PT Combnatorics & Graph, CGANT University of Jember, Jember, Indonesia.	The reflexive vertex strength on cycle and generalized friendship graph	Aug 2022 1 Year Published paper

23.	**Dr.N.Mohanapriya** Asst.Professor Department of Mathematics	M. Imam Utoyo	Department of Mathematics, Airlangga University, Surabaya, Indonesia	The reflexive vertex strength on cycle and generalized friendship graph	Aug 2022 1 Year Published paper
24.	**Dr.N.Mohanapriya** Asst.Professor Department of Mathematics	D.Dafik	Department of Mathematics Education, University of Jember, Jember, Indonesia	The reflexive vertex strength on cycle and generalized friendship graph	Aug 2022 1 Year Published paper
25.	**Dr.N.Mohanapriya** Asst.Professor Department of Mathematics	Slamin	Department of Informatics, University of Jember, Jember, Indonesia	The reflexive vertex strength on cycle and generalized friendship graph	Aug 2022 1 Year Published paper
26.	**Dr.N.Mohanapriya** Asst.Professor Department of Mathematics	D.Dafik	Department of Mathematics Education, University of Jember, Jember, Indonesia	On Rainbow Antimagic Coloring of Various Graphs	July 2023 3 months (ongoing)
27.	**Dr.N.Mohanapriya** Asst.Professor Department of Mathematics	Raul M Falcon	Associate Professor, University of Seville, School of Architecture and Building Engineering	Optimal secret share distribution in degree splitting communication networks	September 2023 1 Year
28.	**Dr. J. Anitha** Asst.Professor Department of Mathematics	Dr.Thathan Premkumar	Department of Chemistry and The University College, Sungkyunkwan University, Suwon,	Facile green synthesis of nano-sized ZnO using leaf extract of Morinda tinctoria: MCF-7 cell cycle arrest, antiproliferation, and apoptosis studies	June 2021 2 years

29.	**Dr B Vishnupriya** Asst.Professor Department of Biotechnology	MrVenkat	NCBS Bangalore	Self-weight-based Tricycle	6 months
30.	**Dr B Vishnupriya** Asst.Professor Department of Biotechnology	Dr V Agalya	New Horizon EngineeringCollege, Bangalore	Fibre to Sugar-freejelly	2 years
31.	**Dr. K. Kalpanadevi** Department of Chemistry (PG)	Prof. K. Pandian,	Department of Inorganic Chemistry, University of Madras, Guindy campus, Chennai	Nano Materials	May 2021
32.	**Dr. A. Amuthavalli** Department of Chemistry (PG)	Dr. P. Shanmugavelan	School of Science, Tamil Nadu Open University, Saidapet, Chennai.	Synthetic Organic Chemistry	June 2021
33.	**Dr.A. Pushpaveni** Department of Chemistry (PG)	Dr. S. Packiaraj	Science and Humanities (Chemistry), Sri Krishna College of Engineering and Technology, Coimbatore 641 008, India	Solid State and Coordination Chemistry	June 2022
34.	**Dr. G. Vadivelan** Department of Chemistry (PG)	Dr. G. Gohulavani	Ethiraj College for Women Chennai- 6000008	Crystal Growth	June 2022