FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr. S. KARTHIKEYAN/T0738	
Designation	Assistant Professor (Grade II)	
Department	Science and Humanities	
Date of Joining the Institution	18.06.2012 (Regular)	
Qualifications	M.Sc (Mathematics)	M.Phil (Mathematics)	Ph.D (Mathematics)
Total Experience	Overall : 17 Years	in RMK : 11 Years 4 Months
Papers Published in Journal	Overall : 36	After Joining RMK : 33
List of Papers Published	1. M. Arunkumar and **S. Karthikeyan,** Solution and Stability of n- Dimensional Additive type Functional Equation, International Journal of Applied Mathematics, 25(2012), 163-174. 2. M. Arunkumar, **S. Karthikeyan** and T. Namachivayam Random Stability of a Functional Equation Originating From a Harmonic Progression, Proceedings of National Conference on Recent Trends in Mathematical Computing (NCRTMC-2013), ISBN: 978-93-82338-68-0, pp, 80-86. 3. M. Arunkumar and **S. Karthikeyan,** Solution and Stability of a Reciprocal Functional Equation Originating From n-Consecutive Terms of a Harmonic Progression: Direct and Fixed Point Methods, International Journal of Information Science and Intelligent System, Vol. 3(1), pp. 151-168, 2014. 4. M. Arunkumar and **S. Karthikeyan,** Solution and Intuitionistic Fuzzy Stability of n-Dimensional Quadratic Functional Equation: Direct and Fixed Point Methods, International Journal of Advanced Mathematical Sciences, Vol. 2 (1), pp, 21-33, 2014.	

	5. M. Arunkumar and **S. Karthikeyan,** Brahmagupta Quadratic Functional Equations Connected with Homomorphisms and Derivations on Non-Archimedean Algebras: Direct and Fixed Point Methods, Proceedings of the International Conference on Mathematical Sciences (ICMS-2014) Published by Elsevier, ISBN: 978-93-5107-261-4, pp, 31-39.
	6. M. Arunkumar and **S. Karthikeyan,** Stability of a Functional Equation Originating From n-Consecutive Terms of an Arithmetic Progression: Direct and Fixed Point Methods, Jamal Academic Research Journal: An Interdisciplinary, Special Issue, pp, 111-117, 2015.
	7. M. Arunkumar, A. Vijayakumar and **S. Karthikeyan,** Ulam-Hyers Stability of Additive and Reciprocal Functional Equations: Direct and Fixed Point Methods, International journal of Scientific research in Science and Engineering Technology, (1)4: 59-77, 2015.
	8. John M. Rassias, M. Arunkumar and **S. Karthikeyan,** Lagrange's Quadratic Functional Equation Connected With Homomorphisms and Derivations On Lie C*-Algebras: Direct and Fixed Point Methods, Malaya Journal of Matematik, S(1), 228–241, 2015.
	9. M. Arunkumar, A. Vijayakumar, **S. Karthikeyan** and S. Ramamoorthi, Stability of n-Dimensional Additive Functional Equation: Direct and Fixed Point Methods, Malaya Journal of Matematik, S(1), 179–191, 2015.
	10. John M. Rassias, M. Arunkumar and **S. Karthikeyan,** Stability Of A Quadratic Functional Equation Originating From Sum Of The Medians Of A Triangle In Fuzzy Ternary Banach Algebras: Direct and Fixed Point Methods, International Journal of Mathematics And its Applications, Volume 3, Issue 4A, 45-64, 2015.
	11. M. Arunkumar, John M. Rassias and **S. Karthikeyan,** Stability of a Leibniz type Additive and Quadratic Functional Equation in Intuitionistic fuzzy normed Spaces, Advances in Theoretical and Applied Mathematics, Volume 11, 2 (2016), pp. 145-169.

12. M. Arunkumar, **S. Karthikeyan** and S. Ramamoorthi, Generalized Ulam-Hyers Stability of n-Dimensional Cubic Functional Equation in FNS and RNS: Various Methods, Middle-East Journal of Scientific Research, 24 (S2): 386-404, 2016.

13. John M. Rassias, M. Arunkumar and **S. Karthikeyan,** Euler's Quadratic functional Equation associated to JC*-Algebra Isomorphism and JC*-Algebra Derivations between JC*-Algebras, Global Journal of Pure and Applied Mathematics, 12 (3), 530-537, 2016.

14. M. Arunkumar, **S. Karthikeyan** and S. Ramamoorthi, Stability of n-dimensional Quartic Functional Equation in Felbin's Spaces: Direct and Fixed point methods, Malaya Journal of Matematik , 5 (1) (2017), 58-71.

15. John M. Rassias, M. Arunkumar and **S. Karthikeyan**, Ulam-Hyers Stability of Quadratic Reciprocal Functional Equation in Intuitionistic Random Normed spaces: Various Methods, Malaya Journal of Matematik , 5(2)(2017), 293-304.

16. M. Arunkumar, **S. Karthikeyan** and S. Hemalatha**,** Stability of 2-Variable Additive-Quadratic-Cubic-Quartic Functional Equation Using Fixed Point Method, Malaya Journal of Matematik, 5(2)(2017), 241–264.

17. John M. Rassias, M. Arunkumar and **S. Karthikeyan,** Stability Of DGC's Quadratic Functional Equation In Quasi-Banach Algebras: Direct And Fixed Point Methods, International Journal of Pure and Applied Mathematical Sciences, 10 (1) (2017), 41-67.

18. M. Arunkumar and **S. Karthikeyan,** Intuitionistic Random Stability Of A Quadratic Functional Equation Originating From The Sum Of The Medians Of A Triangle, International Journal of Difference Equations, 12 (1) (2017), 55-70.

19. M. Arunkumar, E.Sathya, **S.Karthikeyan**, G.Ganapathy and T. Namachivayam, Stability of System of Additive Functional Equations in Various Banach Spaces: Classical Hyers Methods, Malaya Journal of

Matematik, Vol. 6, No. 1, 91-112, 2018.

20. A. Bodaghi, M. Arunkumar, **S. Karthikeyan** and E. Sathya, *Generalized Hyers - Ulam Stability of Functional Equation Deriving from Additive and Quadratic Functions in Fuzzy Banach Space Via Two Different Techniques*, Malaya Journal of Matematik, Vol. 6, No. 1, 242-260, 2018.

21. M. Arunkumar and **S. Karthikeyan,** Lagrange's quadratic functional equation linked to random homomorphisms and random derivations in random Banach algebras, International Journal of Pure and Applied Mathematics, Vol. 118 No. 6, 2018, 217-226.

22. M. Arunkumar, **S. Karthikeyan** and S. Vijayakumar, A Fixed Point Approach To The Stability Of Reciprocal Quadratic Functional Equation In Intuitionistic Fuzzy Banach Algebras, International Journal of Current Advanced Research, Vol 7(1), 2018, 143-150.

23. **S. Karthikeyan**, John M. Rassias, M. Arunkumar and E. Sathya, Generalized Ulam-Hyers Stability Of (a,b; k>0)-Cubic Functional Equation In Intuitionistic Fuzzy Normed Spaces, The Journal of Analysis-**Springer**, https://doi.org/10.1007/s41478-018-0083-8, 2018.

24. M. Arunkumar and **S. Karthikeyan**, Fuzzy Banach Algebra Stability of Reciprocal Quadratic Functional Equation via Fixed Point Approach, International Journal of Pure and Applied Mathematics, Volume 119, No. 13, 31-39.

25. **S. Karthikeyan**, M. Arunkumar, B. Baskaran and S. Vijayakumar, Stability of n-Dimensional Mixed Type Additive and Quadratic Functional Equation, American International Journal of Research in Science, Technology, Engineering & Mathematics, ICCSPAM 19, (2019) 54-61. (UGC Care List)

26. S. Vijayakumar and **S. Karthikeyan**, John M. Rassias and B. Baskaran, A Quartic Functional Equation Originating From The Sum of The Medians of A Triangle In Fuzzy Normed Space, AIP Conference Proceedings, 2282-

20006, Page 1-12. (2020). (Scopus, WoS)

27. **S.Karthikeyan** and P. Palani, Binet-Cauchy functional equation connected with A-module homomorphisms and derivations on non-Archimedean Banach algebras, International Journal of Applied Mathematics, Volume 34, No. 4, 693-704, (2021). doi: http://dx.doi.org/10.12732/ijam.v34i4.8 (Scopus)

28. **S.Karthikeyan** and P. Palani, Stability of a Quadratic Functional Equation in Fuzzy Normed Spaces, Journal of Huazhong University of Science and Technology, Vol. 50 (2), 10 pages, (2021). (Scopus, WoS)

29. **S. Karthikeyan**, Choonkil Park, and John M. Rassias, Stability of quartic functional equation in paranormed spaces, Mathematical Analysis and its Contemporary Applications, Vol 3 (1), 48-58, (2021). doi: 10.30495/MACA.2021.1924046.1001

30. T.R.K.Kumar, **S.Karthikeyan**, S. Vijayakumar and G. Ganapathy, Initial Coefficient Estimates for Certain Subclasses of m-fold Symmetric bi-univalent Functions, Advances in Dynamical Systems and Applications (ADSA), Volume 16, Number 2, 789-800, (2021).

31. **S. Karthikeyan**, Choonkil Park, P. Palani and T.R.K. Kumar, Stability of an additive-quartic functional equation in modular spaces, Journal of Mathematics and Computer Science, 26, 22-40, (2022). doi: 10.22436/jmcs.026.01.04

32. **S. Karthikeyan**, G. Ganapathy, P. Palani, M. Suresh and S. Jaikumar, Stability of a quadratic functional equation, Advances in Dynamical Systems and Applications (ADSA), Volume 16, Number 2, 1167-1181, (2021).

33. John M. Rassias and **S. Karthikeyan**, Stability of additive-quadratic 3D functional equation in modular spaces by direct method, Asian-European Journal of Mathematics, 2021. DOI: 10.1142/S1793557122501455

	34. **S. Karthikeyan**, John M. Rassias, S. Vijayakumar and K. Sakthivel, Stability results of additive-quadratic n-dimensional functional equation: Fixed point approach, Communications in Mathematics and Applications (WoS), Vol. 13, Number 2, 2022.
	35. John M. Rassias, **S. Karthikeyan**, G. Ganapathy and M. Suresh, Generalized Ulam-Hyers stability results of a quadratic functional equation in Felbin's type fuzzy normed linear spaces, International journal of analysis and applications (WoS), 2022. https://doi.org/10.28924/2291-8639-20-2022-15
	36. **S. Karthikeyan**, T.R.K. Kumar, S. Vijayakumar and P.Palani, Stabilities and instabilities of additive-quadratic 3D functional equations in Paranormed spaces, Journal of Mathematics and Computer Science (Scopus, WoS), Volume 28, Issue 1, pp 37-51 http://dx.doi.org/10.22436/jmcs.028.01.04

Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 29	After Joining RMK : 26
Ph.Ds / Projects Guided	Ph.Ds Guided : Nil	Student Projects Guided : Nil

Books Published :	Count : Nil	
	List : Nil	

Patents	Published Count : Nil	Granted Count : Nil
	List : Nil	

Professional Memberships	Count : 4
	List : 1. Indian Society for Technical Education (ISTE) 2. Academia for Advanced research in Mathematical Society (AARM) 3. International Association of Engineers (IAENG) 4. Hong Kong Chemical, Biological& Environmental Engineering Society (HKCBEES)

Consultancy Projects Completed	Count : Nil	
Awards Received	Count : Nil	
	List : Nil	
Research grants Received	Nil	
Orchid Link / ID	https://orcid.org/0000-0002-7639-8858	
Google Scholar Link / ID	https://scholar.google.co.in/citations?user=-GrbRI8AAAAJ&hl=en	
Vidwan Link / ID	**https://vidwan.inflibnet.ac.in/profile/281768**	
Research Gate Link / ID	https://www.researchgate.net/profile/Karthikeyan-Subramani-2	
Scopus Link / ID	https://www.scopus.com/authid/detail.uri?authorId=57281877000	