

RESUME

1. Name : **Dr. V. KRISHNAN**
2. Sex : Male
3. Designation : Assistant Professor of Mathematics
4. Date of Birth : 01.06.1987
5. Age : 36
6. Religion : Hindu
7. Community : OC, Brahmin
8. Nationality : Indian



9. Address for Communication:

Residence

88, West Uthira Street,
Srirangam,
Trichy Dt-620006.
9578532288

Office

Department of Mathematics (SF)
Jamal Mohamed College (Autonomous)
Trichy-620020.
vkmaths@jmc.edu, vkrishnan1987@gmail.com

10. Educational Qualification :

College	University	Exam Passed	Year	Percentage	Class
Srimad Andavan Arts and Science College, T.V.Kovil, Trichy-5	Bharathidasan University	B.Sc.	2007	55	Second
Jamal Mohamed College, Trichy-20	Bharathidasan University	M.Sc.	2009	65	First
Jamal Mohamed College, Trichy-20	Bharathidasan University	PGDCA	2009	69	First
Jamal Mohamed College, Trichy-20	Bharathidasan University	M.Phil.	2010	77	First with distinction
Annamalai University (DDE)	Annamalai university	PGDAOR	2012	52	Second
Tamilnadu Open University (DDE)	Tamilnadu Open University	M.Sc.(Psy)	2017	58	Second
Srimad Andavan Arts and Science College, T.V. Kovil, Trichy-5	Bharathidasan University	Ph.D.	2019	--	Commended

Post-Doctoral Research Work

Research Topic: Constructive Sets and Extended Topological Filters

Name of the Supervisor: Prof. E.G. Rajan Year of Registration: October 2022

11. Experience

Undergraduate : 13 Years

Postgraduate : 13 Years

M.Phil. : 3 Years

12. Language Known : English, Tamil

13. Area of Specialization : Operations Research

Subjects Taught Undergraduate :

1. Differential Equations and Vector Calculus
2. Probability and Statistics
3. Calculus
4. Numerical Methods and Statistics

Postgraduate :

1. Topology
2. Ordinary Differential Equations
3. Functional Analysis
4. Mathematical Foundations

M.Phil. : Research Methodology

M.Sc. Project completed: 3

M.Phil. Project Completed: 3 Ph.D.- Part Time – Pursuing :4

Name Register Number	Title of the Project	Completed Year
ARUNACHALAM S 20MPPMA004	A STUDY ON FUZZY ALGEBRAIC PROPERTIES OF FUZZY GROUP	2022
M.JAYASANKAR 20MPPMA009	A STUDY ON GROUP ON L-FUZZY GROUP AND L-FUZZY I- GROUP	2022
M. SASIKUMAR 21MPPMA007	A STUDY ON FUZZY STRUCTURES ON Z-ALGEBRA	2023

Research Advisor:

MPhil : Ref.No:22328/MPhil/R. A/Mathematics/2019/08.01.2020

PhD : Ref.No:012876/Ph.D./K12/Mathematics/R. A/27.11.20

Seminars / Conferences / Workshops Attended:

Title of the Paper	Name of the Seminar & Places	Date of Seminar
TEQIP-II sponsored two – day workshop on ‘STOCHASTICMODELING IN SYSTEM ENGINEERING’- SMISE2014	Department of Mathematics Coimbatore Institute of Technology, Coimbatore, Tamilnadu	14 th &15 th March2014
Four day Workshop on “LATEX and SPSS”	PG and Research Department of Mathematics, Jamal Mohamed College Trichy-20	26, 29, 30-09-2014 and 1-10-2014
one-day National level seminar on Graph theory Algorithms and Modeling (gam- 2010)	PG and Research Department of Mathematics, Jamal Mohamed College Trichy-20	19 th March2010
The seminar on crating competitiveness to excel in higher education a TQM approach	Internal Quality Assurance cell, Jamal Mohamed college (Autonomous) Trichy-20, on.	8 th December2010
Teaching, learning and research in higher education –Excellence and Beyond Excellence	Seminar, Internal Quality Assurance Cell, JMC, Trichy-20	07-03-2012
UGC sponsored one day National seminar on Applications of Mathematics.	PG & Research Department of Mathematics, Jamal Mohamed college, Trichy-20	22-02-2012
UGC Autonomous Grant National seminar on examination reforms	Jamal Mohamed college (autonomous) Trichy	24-02-2012
UGC sponsored one day National seminar on Discrete Mathematics And Its Applications	PG & Research Department of Mathematics, Jamal Mohamed college, Trichy-20	09-03-2013
Advanced Computing	National Conference Organized PG and Research Dept. Of Computer Science, JMC Trichy -20	07-03-2013
Introduction To People Empowering People	one-day faculty development Program Conducted by ICT Academy of TamilNadu	13-12-2014

Computing and Communication Technologies	State level seminar organized by P.G Department of technology, JMC, Trichy- 20	25-02-2015
Advanced Computing	National Conference Organized PG and Research Dept. Of Computer Science, JMC Trichy-20	05-03-2015
One day Faculty Enrichment Program Use of NLP Techniques in Teaching	Department of Information Technology is Association with ICT Academy of Tamilnadu Jamal Mohamed College, Trichy.-20	05-03-2016
Computing and Communication Technologies	National Conference on computing and communication technologies (NCCCT-2016) Organized PG and Research Dept. Of Computer Science, JMC Trichy-	17-09-2016
“How a teacher should be in the present scenario?”	National level one day work shop organized by IQAC, Jamal Mohamed College, Trichy.-20	03-12-2016
Six days Workshop on Research Methodology and SPSS (UGC Autonomous Grant)	PG & Research Department of Mathematics, Jamal Mohamed college, Trichy-20	20 to 25-10-2016
“Presentation Skills”	Two day faculty development programme – organized by PG department of information technology with ICT Academy.	23-02-2017 & 24-02-2017
Advanced Computing	National Conference Organized PG and Research Dept. Of Computer Science, JMC Trichy-20	15-03-2017
Teaching Knowledge Test (TKT)	One day workshop Organized by Kongu College of Arts and Science, Karur.	18-08-2018

Professional Development For Academic Leadership In Curriculum Design	UGC CPE Sponsored Two Day Workshop On Professional Development For Academic Leadership In Curriculum Design Organized By Curriculum Development Cell, Jmc Trichy-20	18-01-2019 & 19-01-2019
Staff Enrichment Programme on Ownership Culture,	One day work shop organized by IQAC, Jamal Mohamed College, Trichy.-20	14-06-2019
Orientation Programme on MOOC's and e-learning	Department of Library, Jamal Mohamed college, Trichy-20	29-01-2020
Orientation Programme On Preparing Course Outcomes in the Curriculum Design	Curriculum Development Cell Jamal Mohamed college, Trichy-20	03-01-2020
Three-day International Workshop On E-Content Development for MOOCs among the Faculty Members	Digital Education Cell, Alagappa University, Karaikudi (Sponsored under RUSA 2.0 Scheme)	10, 12 & 13-09-2019
National symposium On Digital Technologies for Research Impact and Information Quality	Department of Library and Information Science, Bharathidasan University, Trichy-24	22 and 23-08-2019
Five day International workshop on Mathematics Meets The World :Recent Trends and Developments	School of Advanced Sciences Department of Mathematics Vellore Institute of Technology, Vellore	January 30-February 03, 2020
International Workshop on "Python Programming"	PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous), Trichy-20	18-02-2020
One week online Short term Course on Library and Information Science	Jointly Organized by Manonmaniam Sundaranar university and Madras Library Association	17 to 24-07-2020
Participated in IP Awareness/Training program	National intellectual Property Awareness Mission	11-11-2022

Papers Presented

Title of the Paper	Name of the Seminar & Places	Date of Seminar
The Cumulative Damage System In Stochastic Processes	International Conference on Mathematical Methods and Computation (ICOMAC 2015) , PG & Research Dept. of Mathematics, JMC, Trichy-20	22 & 23-01-2015
Reliability Availability and Maintainability Analysis of The Systems	International Conference on Mathematical Methods and Computation (ICOMAC 2017) organized by the P.G.& Research Department of Mathematics, JMC, Trichy-20	11-12-2017
A Study on Availability on Centrifugal Pump	International Conference on Mathematical Methods and Computation (ICOMAC 2019) organized by the P.G.& Research Department of Mathematics, JMC, Trichy-20	20 & 21-02-2019
Stochastic Analysis And Its Applications	5th International Conference on Current Scenario in pure and applied mathematics ICCSPAM 2022 Kongunadu Arts and Science College (Autonomous), Coimbatore	. 27.01.2022 28.01.2022
Domination of Fuzzy Graphs By The $(2, n)$ -Edge	International Conference on Mathematical Methods and Computation at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli -20	21st & 22nd December 2022
In Random Graphs, Isolated Connected Domination	International Conference on Mathematical Methods and Computation at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli -20	21st & 22nd December 2022
A Stochastic Differential Equalities for the Filter	International Conference on Mathematical Methods and Computation at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli -20	21st & 22nd December 2022
Levy and Diffusion Process in Stochastic Calculus	International Conference on Mathematical Methods and Computation at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli -20	21st & 22nd December 2022
On the Notion of Constructive Sets and Function Spaces in the Framework of Markov's Mathematio-Logic	World Congress - Systems Theory, Algebraic Biology, Artificial Intelligence: Mathematical Foundations and Applications, Russian Academy of Sciences, Russia	June 26-30, 2023.
Constructive Extended Topological Filters	World Innovation & Technology Expo & Investment Summit 2023 under the Aegis of Pentagonam Technologies, India & Anakosmos Group, Ghana & UK	August 10-12, 2023

Publications:

1. RAM Modelling and LHD System Analysis Using a Markov Model, Journal of The Indian Academy of Mathematics, January 2015 Volume -37 Issue -1 ISSN: 0970-5120 Page No .143-157 (UGC CARE)
2. B-Model and FM-Model in Stochastic Processes, Aryabhata Journal of Mathematics and Informatics **SJIF (2014): 4.1**, July-Dec.,2015 Volume -7 Issue -2 ISSN: 0975-7139 Page No .243-250 (UGC CARE)
3. A Mathematical Model In Neuronal Brain Activity, Bulletin Of Pure And Applied Sciences, (Math & Stat),Jan.-Dec.,2015 Volume -34E Issue -(1-2) ISSN: 0970-6577 Page No .15-21 (UGC CARE).
4. A Study of Bulldozers in Reliability Analysis, International Journal of Innovative Research in Science, Engineering and Technology, September 2016 Volume -5 Issue -9 ISSN: 2347-6710 Page No .18830-18837. (UGC CARE)
5. A Study on System Reliability in Weibull Distribution, Journal of International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, March 2017 Volume -5 Issue -3 ISSN: 2321-2004, Page No .38-41. (UGC CARE)
6. A Study on Reliability Analysis of Haul Trucks, International Advanced Research Journal in Science, Engineering and Technology, March 2017, Volume -4, Issue -3, ISSN: 2394-1588, Page No .76-85 (UGC CARE)
7. Reliability Availability and Maintainability Analysis of the Systems, Journal of Mathematics and Informatics, December 2017, Volume -11, ISSN: 2349-0632, Page No 131-141.
8. Mathematical Computation of Neuronal Transmission of Information, International Journal of Psychosocial Rehabilitation, March 2020, Volume -24, Issue -06, ISSN: 1475-7192, Page No .17828-17836 (Scopus).
9. Reliability Availability & Maintainability (RAM) Matrix and its Implication on System Consistency, Journal of Critical Reviews, July 2020, Volume -7, Issue -15, ISSN: 2394-5125, Page No .5866-5878 (Scopus)
10. Artificial Intelligence based Electronics Engineering Software Application System, IEE Explore, CFP23P17- ART; ISBN: 978-1- 6654-7467-2 2023.
11. Mathematical Modeling of Neural Activity Based on Optimal Reinforcement Learning, Journal of Data Acquisition and Processing, Volume 38 Issue 4 Pages 381-390(2023) (Scopus)

Department Activities:

S. No	Date(s)	Name of the activity/topic of lecture	Name of the place and address
1.	21st & 22nd December 2022	Executive Committee Member	International Conference on Mathematical Methods and Computation at PG and Research Department of Mathematics, Jamal Mohamed College, Tiruchirappalli -20
2.	19.02.2020	Executive Committee Member	International Conference on Mathematical Methods and Computation (ICOMAC 2020) organized by the P.G.& Research Department Mathematics, JMC, Trichy-20
3.	20 & 21-02-2019	Executive Committee Member	International Conference on Mathematical Methods and Computation (ICOMAC 2019) organized by the P.G.& Research Department Mathematics, JMC, Trichy-20
4.	11.12.2017	Executive Committee Member	International Conference on Mathematical Methods and Computation (ICOMAC 2017) organized by the P.G.& Research Department Mathematics, JMC, Trichy-20

Book Published:

- Constructive Reformulation of Extended Topological Filters, Theory and Applications of Symbolic Computing with Artificial Intelligence Perspective, London Journal Press, (Book Chapter) (2023).
- Emerging Paradigms in Multidisciplinary Research, Weser Books, ISBN: 978-3-96492-466-7 (JULY 2023)
- Probability and Statistics, Scientific International Publishing House (SIPH), ISBN No :978-93-5757-954-4, (2023)

Administrative Positions Held in The College:

- Tutor in-charge for M.Sc.-Mathematics (SF-MEN) (2018-20)
- Member, Autonomous examinations from 2011 to 2022.
- Member, Admission Committee (From 2020 to till date)
- Member, ERP –DIVISION (From 2020 to till date)

Online Course:

S.No	Duration	Name of the activity/topic of lecture	Name of the place and address
1.	Jul – Sep 19 (8 weeks)	Operations Research	NPTEL Online Certification

Membership:***Life Membership***

- Indian Mathematical Society (IMS)
- Ramanujam Mathematical Society (RMS)
- The Madras Library Association (MALA)
- Operational Research Society of India(ORSI) Board of studies
- Member – Department of Mathematics, Jamal Mohamed College, Trichy.
- Member – Department of Mathematics, Srimad Andavan arts and Science College, Trichy- 620005.

Refresher Course:

1. Refresher course for college Teachers in Kerala State –I during 09-12 August 2018 at Kerala School of Mathematics. Kerala-673 571.
2. Four-Week Online Induction Training / orientation Programme for “faculty in universities/colleges/institutions of higher education” from 17 September - 16 October 2021 and obtained Grade A+, Ramanujan College University of Delhi.
3. Two - week refresher course in “mathematical sciences” from 26 September- 10 October, 2022 and obtained Grade B+.
4. Two - week refresher course in “mathematical sciences” from 28 January-11 February, 2023 and obtained Grade A.

Technical Skills

Junior Grade - Typewriting English –Second class –February-2007.

DECLARATION

I declare that the information furnished above are correct and true to the best of my knowledge and belief.

Date: 14-12-2023

Place: Trichy


(V. KRISHNAN)