

# NIRMALA COLLEGE, MUVATTUPUZHA, KERALA

## Academic Profile of Dr. Thomas K V



**Name:** Dr. Thomas K. V

**Designation and Department:** Associate Professor in Mathematics and Principal

**Date of Joining:** 08/07/12020

**Contact info: Phone:** 8921967170

**Email:** kvt@nirmalacollege.ac.in  
principal@nirmalacollege.ac.in

**Teaching Experience in years:** 24

### Academic Credentials:

**PhD in Mathematics (1991 - 1998)**  
Department of Mathematics,  
University of Delhi, Delhi

**Title of Thesis:** Fuzzy Sets and their Application in Algebra

**Masters in Mathematics (1988-1990)**  
St. Stephen's College,  
University of Delhi, Delhi

**Bachelors in Mathematics (1985-1988)**  
Nirmala College, Muvattupuzha  
M.G. University, Kerala

**Scopus ID or Any Other Research ID:**

**Google Scholar Profile Link URL**

**Any other Research Profile URL:**

[https://www.researchgate.net/profile/Thomas\\_K\\_V](https://www.researchgate.net/profile/Thomas_K_V)

### Areas of Interest

**a. Teaching:** Abstract Algebra, Functional Analysis, Measure Theory and Real Analysis

**b. Research:** Application of Fuzzy Sets in Algebra, Rough Sets, Intuitionistic Fuzzy Sets and Lattice Matrices

**Subjects Taught:** Abstract Algebra, Functional Analysis, Measure Theory, Partial Differential Equations and Real Analysis

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<p><b>Institutional Responsibilities (Past and Present - Time period should be mentioned)</b></p> <ul style="list-style-type: none"> <li>➤ Principal (2020 July onwards)</li> <li>➤ Academic Coordinator (2018-2020)</li> <li>➤ Vice Principal (Academic) (2016-2018)</li> <li>➤ NAAC coordinator (2011-2014,2016)</li> <li>➤ IQAC Coordinator (2012-2014)</li> <li>➤ Internal Assessment Coordinator (2010)</li> <li>➤ Coordinator of UGC (200-2010)</li> <li>➤ NSS coordinator (2005)</li> <li>➤ College union Staff advisor (1999,2004,2006)</li> </ul>
<p><b>Awards and Recognitions (Including membership in BoS) –</b></p> <ul style="list-style-type: none"> <li>➤ Senate Member of M.G University w.e.f 2020</li> <li>➤ PG Board of Studies Member of M.G. University (2015-18)</li> <li>➤ External Subject Expert of Maharajas College Syllabus (2015-2016)</li> <li>➤ Member of the Inspection commission for the sanctioning of new courses of M.G university (2016)</li> <li>➤ Convener of the Vigilance squad of M.G University Examinations (2015)</li> <li>➤ Received direct Senior Research Fellowship on the basis of Publication by CSIR, New Delhi (1992)</li> </ul>
<p><b>Membership in Board of Question Paper Setters:</b> Served as Board of Question Paper Setter in Universities.</p>
<p><b>Referees in Journals:</b> Referee of two international Journals: (i) Fuzzy sets &amp; Systems (ii) Iranian Journal of Fuzzy Mathematics</p>
<p><b>Details of Research Guidance:</b></p> <ul style="list-style-type: none"> <li>➤ Research Guide in Mathematics, Department of Mathematics Bharata Mata College, Affiliated to M.G, University, Thrikkakara, Kochi.</li> <li>➤ 4 students completed PhD and 6 students are doing research</li> <li>➤ 4 M.Phil. completed.</li> </ul>
<p><b>Membership in Subject Related Professional Associations:</b> KERALA MATHEMATICAL ASSOCIATION (Life Member)</p>

### a. Research Projects

Title	Details	Amount	Nature	Status
Lattices of Fuzzy Algebraic Structures	UGC-2004-06	50000	Minor	Completed
Fuzzy Lattices	UGC-2010-12	1,1500	Minor	Completed

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### b. Research Papers in International Journals

Sl. No	Year	Title	Name of the Journal	Volume	Impact Factor and Citation
1	1993	Quasinormality and fuzzy normality	<i>Fuzzy Sets and Systems</i>	Vol.58 217- 225	Scopus Indexed Impact Factor 3.305 No of Citations:16
2	1994	The Lattices of fuzzy subgroups and fuzzy normal subgroups	<i>Information Science</i>	Vol.76,1-11.	Scopus Indexed Impact Factor 5.910 No of Citations: 31
3	1994	Fuzzy Lattices	<i>Information Science</i>	Vol.79 271-291	Scopus Indexed Impact Factor 5.910 No of Citations :164
4	1995	A complete study of the lattices of fuzzy congruences and fuzzy normal subgroups	<i>Information Science</i>	Vol.82, 197-218.	Scopus Indexed Impact Factor 5.910 No of Citations :34
5	1995	The lattices of fuzzy ideals of a ring,	<i>Fuzzy Sets and Systems</i>	Vol.74, 371-379.	Scopus Indexed Impact Factor 3.305 No of Citations: 39
6	1998	The join of fuzzy algebraic substructures of a group and their lattices	<i>Fuzzy Sets and Systems</i>	Vol.99, 213-224	Scopus Indexed Impact Factor 3.305 No of Citations: 17
7	1999	A new blue print for fuzzification: application to lattices of fuzzy congruences	<i>Journal of Fuzzy Mathematics</i>	Vol.7, 499-512	Peer Reviewed No of Citations: 17
8	2002	Fuzzy Lattices- I	<i>Journal of Fuzzy Mathematics</i>	Vol.10 No.2,255-274	Peer Reviewed
9	2002	Fuzzy Lattices- II	<i>Journal of Fuzzy Mathematics</i>	Vol.10 No.2 275-296	Peer Reviewed

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10	2010	Quotient of ideals of an intuitionistic fuzzy lattice	<i>Advances in fuzzy systems</i>	vol.2010 article ID 781672, 8 pages	Impact Factor 1.52 No of Citations: 12
11	2011	Rough Intuitionistic fuzzy sets in a lattice	<i>International mathematical Forum</i>	Vol6. ,1327-1335	Peer Reviewed No of Citations: 30
12	2011	Rough fuzzy ideals in a lattice	<i>International Journal of Fuzzy systems and Rough systems</i>	4(1) June 2011 pp 57-62 Vol6. ,1327-1335	Peer Reviewed No of Citations: 30
13	2011	Rough ideals in a lattice	<i>International Journal of Mathematics and Applied statistics</i>	Vol.2, no.2, July-Dec, pp 95-113	Peer Reviewed
14	2011	Interval valued $(\epsilon, \epsilon \vee q)$ intuitionistic fuzzy lattice and ideals	<i>Advances in Theoretical and Applied Mathematics</i>	Vol 6, no. 3, pp 333-345.	Peer Reviewed
15	2011	Intuitionistic L-Fuzzy Subrings	<i>International Mathematical Forum</i>	Vol. 6, No.52, 2561-2572	Peer Reviewed
16	2011	Intuitionistic Fuzzy Sublattices and Ideals	<i>Fuzzy Information and Engineering</i>	Vol.3 no.3 , pp 321-331	Impact Factor 1.330 No of Citations: 15
17	2012	Intuitionistic Fuzzy Equivalences and Congruences of a lattice	<i>International journal of fuzzy mathematics</i>	Vol 20.no 3	Peer Reviewed
18	2012	Operations on intuitionistic fuzzy ideals of a lattice	<i>International Journal of fuzzy mathematics</i>	Vol 20.no 2.	Peer Reviewed
19	2012	Intuitionistic L-fuzzy rings	<i>Global Journal of Science Frontier Research</i>	Vol.12	Peer Reviewed No of Citations: 35
20	2013	Intuitionistic L-Fuzzy congruence on a ring	<i>Notes on Intuitionistic Fuzzy Sets</i>	Vol. 19, No. 1, 7-20.	Peer Reviewed No of Citations: 2
21	2014	Interval valued intuitionistic fuzzy ideals of a ring	<i>Advances in Fuzzy Sets and systems</i>	nNo.1.,49-82	Peer Reviewed No of Citations: 1
22	2015	On Isomorphism of L-fuzzy Graphs	<i>Annals of Fuzzy Mathematics and Informatics</i>	Volume x, No. x, (Month 201y), pp. 1-xx	Peer Reviewed No of Citations: 2

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23	2016	A Study on Characteristic Roots of Lattice Matrices	Journal of Mathematics, Hindawi Publishing Corporation	Volume 2016, Article ID 3964351, 8 pages	Impact Factor 0.712 No of Citations: 5
24	2017	The Determinant and Rank of a Lattice Matrix	Global Journal of Pure and Applied Mathematics	Volume 13, Number 6 (2017), pp. 1745-1761	Peer Reviewed No of Citations: 1
25	2017	On matrices associated with L-fuzzy graphs	Global Journal of Pure and Applied Mathematics	Volume 13, No: 6 (2017), 1799-1810	Peer Reviewed
26	2017	On fuzzy wing graphs and their properties	Advances in Fuzzy Mathematics	Volume 12, No: 1 (2017), 51-62	Peer Reviewed
27	2017	On the Eigen problems of nilpotent lattice matrices	Advances in Fuzzy Mathematics	12(4) 2017 855-866	Peer Reviewed No of Citations: 1
28	2018	Morphological operators on the complete lattice of Fuzzy Hyper graphs	Mathematical Sciences International Research Journal	Vol-7 Spl Issue with ISSN 2278-8697	Scopus Indexed Impact Factor 1.02
29	2019	Lattice Vector Spaces and Linear Transformations	Asian-European Journal of Mathematics	12 (2) 2019, Article Id 1950031.	Impact Factor 0.390
30	2020	Soft Morphological Operators on Fuzzy Hypergraphs	Mathematical Sciences International Research Journal	Vol.8, Issue2	Peer Reviewed
31	2020	Soft Morphological Filtering using Hypergraphs	Annual International Conference on Emerging Research Area	Accepted	Scopus Indexed Peer Reviewed

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### c. Research Papers in National Journals

Sl. No	Year	Title	Name of the Journal	Volume/Issue/ISSN
1	2014	Intuitionistic L-Fuzzy ideals and congruence of a ring	<i>Bharata Mata Journal of Multidisciplinary Studies</i>	Vol.1, Issue II,28-40.
2	2016	The Strong Product of L-Fuzzy Graphs	Bulletin of Kerala Association	Vol.13,No.1,15-27
3	2018	Generalized Symmetric lattice matrices	Bulletin of Kerala Association Bulletin of Kerala Association	ISSN 0973-2721,Vol.13.
4	2018	The L-Fuzzy Wing Graph and its Properties	Bulletin of Kerala Association	ISSN 0973-2721,Vol.15,No.2

### d. Research Papers in Edited Books

Sl. No	Year	Title	Name of the Book
1	1994 1994 1995 1998 1999 2002	<ol style="list-style-type: none"> <li>1. The lattices of fuzzy subgroups and fuzzy normal subgroups</li> <li>2. Fuzzy Lattices</li> <li>3. A complete study of the lattices of fuzzy congruences and fuzzy normal groups</li> <li>4. The join of fuzzy algebraic substructures of a group and their lattices</li> <li>5. A new blueprint for fuzzification: application to lattices of fuzzy congruences</li> <li>6. Lattice of subalgebras in the category of fuzzy groups</li> </ol>	Text Book Fuzzy Group Theory, by John N Mordeson, Kiran R Bhutani, Azriel Rosenfeld and D.S Malik, Creighton University, Published by World Scientific Publishing Co. Pvt. Ltd, Singapore
2	1994	Fuzzy Lattices	<i>Fuzzy Sets and Fuzzy Logic Theory and Applications</i> by George J Klir and Bo Yuan Published by Prentice-Hall, Inc. Upper Saddle River, New Jersey, USA. ISBN-81-203-1136-1.

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### e. Details of Paper Presentations

Sl. No	Year	Title of Paper	Name of the Conferences
1	2019	<i>Soft Morphological Operators on Fuzzy Hypergraphs</i>	International Conference on Advances & Applications in Mathematics, Statistics & Computer Science to be held on November 01-02, 2019 at Loyola College, Andhra Pradesh
2	2017	A Note on skew-symmetric lattice matrices	Proceedings of the National Seminar on Recent Development in Fuzzy Set Theory, Christ College Kerala 16-17 Feb.2017

### f. Details of Orientation Programme/ Refresher Course Attended

SI. No	Name of the Course	Organizing Agency	Period
1	Orientation Course in Multidiscipline	Academic staff College, university of Kerala	24-06-2000- to 21-07-2000
2	Refresher Course in Mathematics	Academic staff College, university of Kerala	16-02-2004- to 08-03-2004.
3	Refresher Course in Mathematics	Academic Staff College	14-02-2006- to 06-03-2006