

Curriculum Vitae

(I) PERSONAL INFORMATION:

Name R.Sumathi
Designation Assistant Professor of Mathematics
Department Mathematics
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Contact No 9941562915
Date of Birth 05/03/1977
Date of Appointment 20/08/2018
Date of Retirement 31/03/2035
Gender Female
Address West Masilamani Street,
Thirunagar III
Stop, Madurai-5



Academic Qualification (Undergraduate Onwards):

S.No.	Degree	Year of Passing	Subject	Name of the Institution/University
1	B.Sc	1997	Mathematics	Mannar Thirumalai Naicker College, Madurai
2	M.Sc	1999	Mathematics and Computer Applications	Gandhi Gram Rural Institute, Dindigul
3	M.Phil	2004	Mathematics	Madurai Kamaraj University
4	TNSET	2017	Mathematical Science	Mother Teresa Women's University

(II) TEACHING EXPERIENCE:**Work Experience: (in chronological order)**

S.No.	Position held	Name of the Institute	Designation	From	To	Others
1	Exam cell Incharge, Hostel Warden	Perummal Sami Rishi Engineering College, Maduranthakam	Lecturer	Sep'2001	Sep'2003	Chief Superintendent for one semester exam
2	-	SACSM.A.V.M.M. Engineering College, Madurai	Lecturer	Oct'2003	June 2004	-
3	Hostel Warden	Mohamed Sathak Engineering College, Kilakarai.	Lecturer	July 2004	Dec'2006	Internal Exam Cell Member
4	ISO Co-ordinator, NBAC Coordinator, Academic Co-ordinator- Dept	KCG College of Technology, Karapakkam, Chennai-97	Senior Lecturer, Assistant Professor-SG	Jan 2007	Aug 2018	Chief Superintendent for one semester exam, Anna University Representative for 2 semesters,
5		Mannar Thirumalai Naicker College, Madurai	Assistant Professor	From Aug 2018	Till now	

Faculty Development Programme/Short Term Course attended (other than MTNC):

S.No	Faculty Development Programme/Short Term Course	Title of the Programme/Course	Name of the Institution/University	Month and Year
1	Faculty Development Programme	Faculty Induction Programme	Gandhigram Rural Institute, Gandhigram	22 nd April- 21 st May 2019

2	Training	LaTex	SreeNarayana Guru College and SpokenTutorial Project, IIT Bombay & MHRD Govt.ofIndia	15May2020
3	Faculty DevelopmentProgramme	R Programming	Sona College of Technology and SpokenTutorialProject,IITBombay& MHRDGovt.ofIndia	14May2020-16May2020

(III) RESEARCH EXPERIENCE:

Publications (*List of papers published, in year wise descending order*):

S.No.	Title of the paper	Name of the Authors	Name of Journal	Month & Year	ISSN	Volume & Issue	Impact factor	ID Indexed in Scopus, Web of Science, Pubmed/ approved by UGC / UGCCARE List
1	A Study On Facts, Causes And Consequences Of Divorce Using Fuzzy Cognitive Maps	R.Sumathi, J. Jayalakshmi	International Journal of Engineering Research and Technology	August 2013	2278-0181	IJAMM-2501		
2	Preferring old age home: A Fuzzy Approach using Extended Bidirectional Associative Memory	Kanimozhi Raman, Sumathi.R, Jayalakshmi.J	Mathematical Sciences International Research Journal	2014	2278-8697	Vol - 3, Issue 2, Pg.No.694-697		Scopus
3	A new fuzzy clustering method based on fuzzy equivalence relation	Dr.A. Praveen Prakash, Ms. N. Vanathi, R. Sumathi,	IPASJ International Journal of Computer Science	December 2014	2321-5992	Vol - 3, Issue 2, Pg.No.694-697		Scopus

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4	Application of Three estimates Fuzzy TOPSIS [TEFTOPSIS] Method using Pentagonal Fuzzy Number in Analysing the Causes for increase in Old Age Home	Dr.A. Praveen Prakash, Kanimozhi Raman, Sumathi.R,	International Journal of Advanced Research in Computer Science	Mar/Apr 2015	0976-5697	Vol -6, Issue 2, p77-83	UGC Approved
5	Predominant Factor Prediction To Accelerate Growth Of Quick-Service Restaurants (QSR)	Susan Chacko, R. Sumathi, M K Badri Narayanan, Syam Narayanan S	International Journal of Scientific & Technology Research	April 2020	2277-8616	Volume 9, Issue 04	Scopus
6	An Effective Automatic Breast Cancer Identification using Vedic Mathematics	R. Sumathi, R. Indumathi	Elsevier – Materials Today: Proceedings.	April 2021	https://doi.org/10.1016/j.matpr.2021.04.153		Scopus
7	Challenges faced by the food industry under franchising sector	Susan Chacko, R. Sumathi, M K Badri Narayanan, Syam Narayanan S	Elsevier – Materials Today: Proceedings.	July 2021	https://doi.org/10.1016/j.matpr.2021.07.389		Scopus

Paper presented in Conference/Seminar:

S.No	Title of the Paper	Status	International/National /State level	Title of the Conference	Institution/College Name	dt/mm/yr
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1	Navin-Vanavas Re-skilling during the Lockdown from in Higher Education Institutions	Submitted	National	Skill Enhancement /Reskilling during the lockdown period	Computer Society of India, ACM, IEEE CS and IEEE TEMS, Chennai	2/5/2020
2	Computer Aided Skin Disease Detection and Classification	Presented	National	Hardware Security- NCHS'20	Aarupadai Veedu Institute of Technology, Chennai	25/6/2020
3	An Effective Automatic Skin Disease Identification Using Vedic Maths	Presented	National	International Conference on Applied Mathematics & Civil Structures (ICAMCS 2021)	Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam	12/2/2021 & 13/2/2021

Conference/Seminar attended:

S.No	International/National /State level	Title of the Conference	Institution/College Name	dt/mm/yr
1	International Level	Emerging Trends in Vedic Mathematics and Applications in Science, Technology and Social Sciences Research	Jawaharlal Nehru University, New Delhi	16/08/2020–17/08/2020

Books and Chapters published

S.No	Year	Title of the Book	Title of the Chapter	ISSN/ ISBN
1	2021	Women in 21st Century	Women Mathematicians in 21st Century	978-93-90687-63-3

Courses attended - Online Courses (NPTEL, SWAYAM, EDX, etc.)

S.No.	Year	Name of the Faculty	Name of the Online Courses	Name of Organization
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1	2020–2021	Mrs.R.Sumathi	SWAYAM	Madurai Kamaraj University
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(IV) OTHER EXPERIENCE:

Professional Recognition/Award/Prize/Certificate,Fellowship received:

S.No	Name of Award	Awarding Agency	Year
1	Appreciation award-Appraisal	KCG College of Technology, Chennai	2015
2	Achievement award-100% result in Applied Probability And Statistics	KCG College of Technology, Chennai	2015

Membership in Academic/Professional Bodies:

S.No	Name of the Body	Capacity
1	ISTE	Lifetime

Detail of Project:

S.No	Project Title	Name of Applicant(s)	Status	Amount	Agency	Year
1	Bayesian Network based Performance Prediction	Dr. Sundareswaran, Mrs. R. Sumathi	Submitted	Rs.300000/-	Gandhigram Rural Institute,	2019
2	A New Domination-Vedic Perspective in Medical Image Processing	Mrs. R. Sumathi	Completed	Rs. 25000/-	Mannar Thirumalai Naicker College	2020

FDP/Workshop Attended (other than MTNC):

S.No	International/National /StateLevel	TitleoftheProgramme/Course	NameoftheInstitution/University	dt/mm/yr
1	State	Mathematical Methods&Fuzzy Applications	JamalMohamedCollege	27/02/2006
2	State	PatentAwareness	MohamedSathakEngineeringCollege	5/04/2006
3	National	Recent Trends inAdvanced Mathematics	EaswariEngineeringCollege	15/10/2010
4	National	Computational MethodologiesinStatistics	PondicherryUniversity	19/01/2011 to21/01/20 11
5	National	AppliedMultivariateStatisticalAnalysisusingSPSSand AMOS	PresidencyCollege	4/03/2011& 5/03/2011
6	National	UsingSageForEngineeringMathematics	VIT	28/04/2012
7	International	DiscreteMathematics	TagoreEngineering College	7/09/2012
8	National	Recent Advances inMathematics anditsApplications	LoganathaNarayanasamyGovernment College	13/12/2012 & 14/12/2012
9	State	ProbabilityandQueueingTheory	KCG CollegeofTechnology	15/10/2014 & 16/10/2014
10	National	FuzzyTheoryanditsApplications	KCG CollegeofTechnology	24/07/2018 & 25/07/2018
11	State	DiscreteMathematicsandGraphTheory	Sairam InstituteofTechnology	25/07/2018
12	State	GraphtheoryandDiscreteMathematics	KCG CollegeofTechnology	Aug2015
13	State	OutcomeBasedEducation	KCG CollegeofTechnology	30/06/2016 & 01/07/2016
14	State	ValuesandSpiritualityforEXCELLENCEin TeachingProfession	HappyVillageRetreat Center	09/07/2016 & 10/07/2016
15	State	QuantitativeAptitudeTraining	KCG CollegeofTechnology	28/08/2016
16	State	IOTtrainingonIntelGalileoBoard	KCG CollegeofTechnology	Nov2016

17	National	StayatHome,SaveLivesPledge	MinistryofEducationand InformationTechnology,Governmentof India	29/03/2020
18	State	SelfDevelopment	Sri SaradaNiketan College of Science for Women,Karur	20/04/2020& 21/04/2020
19	State	Creation of E-Content, Animated E-Content, Stop MotionAnimation, Editing E-Content, Creating Interactive E- Content andUploadingE-ContentontheWeb.	UniversalTeachersAcademy, Puducherry, India	21/4/2020- 30/4/2020
20	National	Research Outcomes:Technical Paper writing, Research Proposal,PatentFiling	TheDataTech.ai	22/4/2020
21	National	Covid-19PandemicGeneral Awareness Quiz	PottiSriramuluChalavadiMallikarjuna RaoCollege of Engineering & Technology,Vijayawada,Andra Pradesh	26/4/2020

22	State	OnlineAssessmentonImprove yourSkills	VirudhunagarHinduNadars'SenthikumaraNadarCollege, Virudhunagar	27/4/2020–29/4/2020
23	National	OnlineCollegeManagement&OnlineContentCreation Tools	BMM&BAMMCDepartmentofLalaLajpatiRai College of Commerce & Economics andUniversityofMumbaiwithNorthStormAcademy	30/4/2020–2/5/2020
24	State	OnlineQuizCompetitiononEffectiveTeaching–2020	S.S.DuraisamiNadarMariammalCollege, Kovilpatti	3/5/2020
25	State	Documentationusing LATEX	Arasu CollegeofArts &ScienceforWomen, Karur	4/5/2020
26	State	DataAnalysis&VisualisationofCOVID-19	JerusalemCollegeofEngineering, Chennai	7/5/2020
27	International	E-QuizonImpactofCOVID-19onGlobalEconomy	KhadirMohideenCollege, Thanjavur	11/05/2020
28	State	MathematicsE-Quiz	SenguntharArts andScienceCollege, Namakkal	25/5/2020
29	National	AlgebraicGraphTheory	Government Arts College for Men, Nandanam, Chennai	1/6/2020
30	State	E-Quizon Mathematics	Rohini College of Engineering & Technology, Kanyakumari.	03/06/2020
31	National	Mathematical Analysis	LoyolaCollege, Chennai	08/06/2020 - 13/06/2020
32	National	FuzzyLogicandIt's Applications	Rohini College of Engineering & Technology, Variyoor, Kanyakumari	12/6/2020
33	National	E-Quizon GraphTheory	The Madurai DiraviyamThayumanavar HinduCollege, Tirunelveli	13/6/2020& 14/6/2020

34	International	Application of Stochastic Process in Real World Problems and Graph Theory in Secured Data Transmission	Sri Akilandeswari Women's College, Wandiwash, Thiruvannamalai	16/6/2020
35	State	Graph Embedding	Don Bosco College of Arts and Science, Keela Eral, Thoothukudi	16/6/2020
36	International	Fuzzy Mathematical Modelling	St. Joseph's College of Engineering, Chennai	16/6/2020-17/6/2020
37	National	Edge Colouring in Graphs	Pope's College, Samyerpuram	18/6/2020
38	National	Recent Trends in Graph Theory	Government Arts College, Ramanathapuram	22/06/2020 - 24/06/2020
39	National	Coloring of Graphs	Tirumala Engineering College, Guntur, Andhra Pradesh	26/6/2020
40	State	Basic Graph Theory with GRIN	Rajalakshmi Engineering College, Chennai	1/07/2020
41	National	Graph Theory and its Applications	Islamiah Women's Arts and Science College, Vaniyambadi.	2/07/2020-3/07/2020
42	National	Rough Set: A Tool for Qualitative Knowledge Data Discovery	Yadava College, Madurai	4/07/2020
43	National	Blended Learning and Mathematical Relevance to Real World Applications	Anwarul Uloom College, Hyderabad, Telangana.	05/07/2020
44	National	Applications of Number Theory and Cryptography	Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana.	08/07/2020
45	State	Soft Computing by Soft Sets	Don Bosco College of Arts and Science, Thoothukudi.	10/07/2020
46	National	Statistical Analysis As An Interface In Engineering Problems	Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana.	13/07/2020
47	International	Discrete Mathematics	SSN College of Engineering, Chennai	08/08/2020

Positions held at our college (MTNC):

S.No	Name of position	From	To
1	Career Guidance, Placement Cell and Centre for Competitive Examinations – Member	June 2019	2021
2	Attendance Monitoring Committee - Member	June 2019	2021
3	Coordinator for Counselling & Psychotherapy (Community College)	June 2020	Till now

Workshop/Conference/FDP Attended in MTNC:

S.No	International/National/ State Level	Title of the Workshop/Conference	Name of the Institution/University	Month and Year
1	College Level	Faculty Development Programme on “Promotion of API Score and CAS Filling”	Mannar Thirumalai Naicker College, Madurai	02.03.2019
2	College Level	Faculty Development Programme on Outcome Based Curriculum Development	Mannar Thirumalai Naicker College, Madurai	09.03.2019
3	International Level	International Conference on “Revolutionary Trends in Mathematical Sciences”	Mannar Thirumalai Naicker College, Madurai	14.12.2018-15.12.2018
4	College Level	Technicalities of Writing Research Proposal	Mannar Thirumalai Naicker College, Madurai	29.06.2019

5	CollegeLevel	OutcomeBasedEducation	MannarThirumalaiNaickerCollege, Madurai	28.08.2019
6	CollegeLevel	Research writing and Publication:TheoryandPra ctice	MannarThirumalaiNaickerCollege, Madurai	19.10.2019
7	NationalLevel	National Seminar on “AppliedMathematics&I PR”	MannarThirumalaiNaickerCollege, Madurai	20.12.2019
8	CollegeLevel	e-content and Digitaltools	MannarThirumalaiNaickerCollege,Madurai	29.02.2020
9	CollegeLevel	PromotionofAPIScoreand CASrequirements	MannarThirumalaiNaickerCollege,Madurai	03.03.2020
10	CollegeLevel	21stCenturySkills	MannarThirumalaiNaickerCollege,Madurai	05.03.2020
11	CollegeLevel	QualityAssuranceandSustenanceinHi gherEducation	MannarThirumalaiNaickerCollege, Madurai	11.03.2020
12	NationalLevel	Online National Faculty EnrichmentProgramme	MannarThirumalaiNaickerCollege, Madurai	13.05.2020– 19.05.2020
13	National	Positive ThoughtandtheIdealLife	MannarThirumalaiNaickerCollege, Madurai	28.05.2020
14	State	Recent Trends in MathematicalModell ing	MannarThirumalaiNaickerCollege, Madurai	27/06/2020

Conferences/Seminars/Workshops/Intercollegiate Meets/Etc., Organized

No	Date	Name of the Programme	Name of the Institution
1	15/10/2014 & 16/10/2014	State Level Two day FDP on "Probability and Queueing Theory"	KCG College of Technology, Chennai
2	24/07/2015 & 25/07/2015	National Conference on Fuzzy Theory and Applications	KCG College of Technology, Chennai
3	30/06/2016 & 1/07/2016	Two days FDP on Graph theory and Discrete Mathematics	KCG College of Technology, Chennai
4	29/06/2018	One day workshop on Linear Algebra	KCG College of Technology, Chennai
5	20.12.2019	National Seminar on "Applied Mathematics & IPR"	Mannar Thirumalai Naicker College, Madurai
6	16/03/2020	One Day Hands-on Workshop on "Research Documentation Using LaTeX"	Mannar Thirumalai Naicker College, Madurai
7	23.06.2021	International Webinar on "Data Science in E-Commerce"	Mannar Thirumalai Naicker College, Madurai