

PROFILE

PERSONAL INFORMATION:

Name Dr.M.Karthika
Designation Head & Assistant Professor
Department Information Technology
Date of Joining 01.06.2019
E-Mail ID karthika@mannercollege.ac.in
Address DoorNo: 16, Plot No: 5,1st Cross Street,
Alagusundaram Nagar, Madurai-625 003.



Academic Qualification:

S.No.	Degree	Year of Passing	Subject	Name of the Institution/University
1.	M.C.S.A	2001	Computer Science and Applications	Madurai Kamaraj University
2.	M.Phil	2009	Computer Science	Madurai Kamaraj University
3.	Ph.D	2014	Computer Science	Madurai Kamaraj University
4.	SET	2016	Computer Science and Applications	Mother Teresa University

Ph.D thesis title, Institute/Organization/University and Year of Award:

S.No.	Ph.D thesis title	Field of Specialization	Institute/University	Year of Award dt/mm/yr (viva voce date as per syndicate communication)
1.	Quantify the Use and Effects of System Engineering	Computer Science	Madurai Kamaraj University	2014

TEACHING EXPERIENCE:

S.No.	Positions held	Name of the Institute	Designation	From	To	Others
1.	Assistant Professor	TBAK College for women	Assistant Professor	25.6.2001	9.8.2002	
2.	Assistant Professor	N.M.S.S.VellaichamyNadar College (Autonomous)	Assistant Professor	10.8.2002	30.4.2019	
3.	Assistant Professor	MannarThirumalaiNaicker College(Autonomous)	Head of the department	1.6.2019	Till Date	

Orientation/ Refresher Course Attended (other than MTNC):

S.No	Orientation/ Refresher Course	Theme	Name of the Institution/University	Month and Year
1.	Orientation Programme	Orientation Programme for Science Faculty Members	NMSSVN College	Feb-2009
2.	Orientation Programme	Orientation Training Course	Madurai Kamaraj University	Mar-2002

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.	Short Term Course	Introduction to Design of Algorithms	Institute of Technology Kharagpur through ICT (MHRD)	27 th April to 30 th May,2015

RESEARCH EXPERIENCE:**Research Guidance**

S.No.	Research Level	Guiding	Submitted	Awarded
1	M.Phil	-	12	12

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, Pub med / approved by UGC/UGC
1.	An Advanced Computations And Semantic Reasoning To Create An Intelligence System Using WSN	M.Karthika	Springer-Artificial Intelligence and Internet of Things	April 2023	1865-0929 e-ISSN Number:1 865-0937			https://link.springer.com/book/10.1007/978-3-031-37303-9
2.	Pattern For Gaining The Potency In Multivariate Dataset Through Clustering Using Poisson Distribution	M.Karthika	Rabindrabharati Journal Of Philosophy	2023	0973-0087	Vol. : XXIV, No:15		UGC – Printed Journal
3.	Dynamic system for image retrieval by using comparative relevance feedback	Dr.M.karthika, Dr.M.selvam	International Journal of humanities, Law and social Sciences	June 2023	2348-8301	Vol X, Issue 1		UGC – Printed Journal
4.	An Overview of Hyperledger Fabric in Blockchain Framework over Virtual Networks	Dr.M.Karthika, Dr.T.Sujithra	Journal of Emerging Technologies and Innovative Research	May 2023	2349-5162	Vol 10, Issue 5/411- 415/		DOI :10.6084/m9.jetir.JETIR2305357 https://www.jetir.org/view?paper=JETIR2305357
1.	IoT Enabled wireless technology based and speed control of Motor using Variable Frequency Drive	Ra.Bhavisyan Dr.S.Parthasarathy, Dr.M.Karthika	Journal of Applied Science and Computations	2018	0076-5131	Volume 5 Issue6	5.8	UGC

2.	Cloud Computing Support for Smart Grid Applications	Dr.M.Karthika, Dr.S.Parthasarathy	International Journal of Advances In Computer and Electronics Engineering	2017	2456 - 3935	Volume 2	5.142	UGC
3.	A Prefetching Technique Using HMM Forward and Backward Chaining for the DFS in Cloud	V.Thilaganga, M.Karthika and M.Mahalakshmi	Asian Journal of Computer Science and Technology (AJCST) (UGC Approved Journal)	July-December 2017	2321-9939	Volume 6	2	UGC
4.	A Meta-Heuristic Approach for Scheduling the Loads in DFS For Cloud Environment Using Tabu	Dr.M.Karthika, S.Arundevi, Dr.X.Josphin JaslineAnitha	Asian Journal of Computer Science and Technology (AJCST)	March 2017	ISSN - 2321-9939	Volume: 5 Issue: 1	2	UGC
5.	Readable CDA document for Generation and Integration in Cloud using APIs	Dr.M.Karthika, M.Mahalakshmi, Dr.X.Josphin JaslineAnitha	Asian Journal of Computer Science and Technology (AJCST)	March 2017	ISSN - 2321-9939	Volume: 5 Issue: 1	2	UGC
6.	A Prefetching Technique using HMM Forward Chaining for the DFS in Cloud	Dr.M.Karthika, V.Thilaganga, Dr.X.Josphin JaslineAnitha	Asian Journal of Computer Science and Technology (AJCST)	March 2017	ISSN - 2321-9939	Volume: 5 Issue: 1	2	UGC
7.	Analysis of Periodontitis Using R in Big Data	Dr. M. Karthika	International Journal of Computer Trends and Technology	2016	ISSN: 2231-2803.	Volume 38 issue 1	2.01	UGC Care list
8.	Analysis of Periodontitis using R in Big Data	K.G. Rani Roopha Devi, Dr. M. Karthika	International Journal of Computer Trends and Technology (IJCTT)	August 2016	ISSN: 2231-2803	Volume 39 issue 1	2.01	UGC Care list

9.	Analysis of Periodontitis using Map Reduce in Big Data Analytics	Dr. M.Karthika, K.G. Rani Roopha Devi, Dr. R. MahendraChozhan	International Journal of Engineering Trends and Technology (IJETT)	May 2016	ISSN: 2231-5381	Volume 35 Number 5	2.31	scopus
10.	Quantifying The Technical Performance Of The Process In System Engineering Using An LPP	M.Karthika , X.JoshphinJasalineAnitha , K.Alagarsamy	International Journal Of Engineering Sciences & Emerging Technologies	August 2012	ISSN: 2231 – 6604	Volume 3, Issue 1	3.93	-
11.	Quantification of Functional Requirements In Software System Engineering Using LPP	M.Karthika, X.JoshphinJasalineAnitha, K.Alagarsamy	International Journal of Engineering Research & Technology (Ijert)	July-2012	ISSN: 2278-0181	Volume 1 Issue 5,	1.98	-
12.	Risk analysis for software Reengineering process transformation with XP	X.JoshphinJasalineAnitha ,M.KarthikaK .Alagarsamy	International Journal of Engineering Research & Technology (IJERT)	July – 2012	ISSN: 2278-0181	Volume 1 Issue 5	1.98	UGC
13.	An Approach to Analyze and Quantify the Functional Requirements in Software System	M.Karthika, X.JoshphinJasalineAnitha, K.Alagarsamy	International Journal of Computer Applications	April 2012	(0975 – 8887)	Volume 43	3.96	UGC
14	The Classification and Analysis of Risks in Reengineering System	X.JoshphinJasalineAnitha, M.Karthika and K Alagarsamy	International Journal of Computer Applications	February 2012	0975 - 8887	Volume 23	3.96	UGC

Research Articles Published in Proceedings:

S.No	Name of the Author/Authors	Title of the Article	Title of the Conference/Seminar	International/ National /State level	ISBN Number	dt/mm/yr
1	Dr.M.Karthika, Dr.T.Sujithra	Ability, Client suppleness and Group Presentation in Big Data	Proceedings of the International conference ICDABMF'23	International	Pp 386-393/978-81-9590984-1	Feburary. 2023
2	Dr.M.Karthika, Dr.T.Sujithra	An Overview Of Combining The Blockchain Transaction And Prediction Of Cryptocurrency Using Supervised Machine Learning Algorithm	Proceedings of the International conference pn ICDABMF'23	International	Pp 25-31/978-81-9590984-1	Feburary. 2023
3	Dr.M.Karthika	An Overview Of Hyperledge or Fabric In Blockchain Framework Over Networks	Proceedings of the International conference NEXUS'23	International	Pp 253-256/978-81-95908-1-0	January,2023
4	Dr.M.Karthika	Data Mining Tools in Decision Support	GMI ,Coimbatore Institute of Technology, Coimbatore.	International Conference	--	2006

Paper presented in Conference/Seminar:

S.No	Title of the Paper	International/National /State level	Title of the Conference	Institution/College Name	dt/mm/yr
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1.	Data Mining Tools in Decision Support system	International Conference	GMI	Coimbatore Institute of Technology, Coimbatore.	2006
2.	Software System Engineering	International Conference	Quantification of software, ICCIA 2012	Vivekanada College, Thirchengode.	2012
3.	Analysis of Periodontitis using Clustering in Big Data	International Conference	Engineering and Solutions (ICETS-2016)	Muthyammal College of Engineering	2016
4.	Prediction of Periodontitis Patients Using Big Data	International Conference	Innovations in Engineering and Technology (ICIET'16)	K.L.N. College of Engineering	2016
5.	Prediction of Periodontitis using Big Data Analytic An Overview	National level Seminar	Recent Trends in Computer Applications	NMSSVN College	10 th March 2016
6.	Innovative Digital Image Processing and Iconic Open Source Technology	National level Seminar	Innovative Digital Image Processing and Iconic Open Source Technology	E.M.G. Yadava Women's College	20 th August 2015
7.	Women Empower- Milestones & Challenges	National level Seminar	Women Empower- Milestones & Challenges	NMSSVN College, Madurai.	8 th October 2015
	Ability, Client suppleness and Group Presentation in Big Data	International conference	ICDABMF'23	Nadar Saraswathi College of Arts and Science,Theni	Feburary .2023
	An Overview Of Combining The Blockchain Transaction And Prediction Of Cryptocurrenc y Using Supervised Machine Learning Algorithm	International conference	ICDABMF'23	Nadar Saraswathi College of Arts and Science,Theni	Feburary .2023

	An Overview Of Hyperledger Fabric In Blockchain Framework Over Networks	International conference	NEXUS'23	Nadar Saraswathi College of Arts and Science,Theni	January, 2023
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OTHER EXPERIENCE:

Membership in Academic/Professional Bodies:

S.No	Name of the Body	Capacity
1	National Professional Academy	12
2	Institute for Engineering Research and Publication	3

FDP/Workshop Attended (other than MTNC):

S.No	International/National / State Level	Title of the Programme/Course	Name of the Institution/University	dt/mm/yr
2.	National	Cloud Computing	NMSSVN College	2011
3.	National	Emerging Trends in Software Testing	NMSSVN College	Sep-2011
4.	National	Recent Trend in Operating Systems	K.L.N. College of Engineering	Feb-2009
5.	National	Foundation of Middleware Technologies	Thiagarajar College of Engineering (TCE)	Sep-2006
6.	National	Network Security	K.L.N. College of Information Technology	Feb-2006
7.	National	To Create Awareness Among Youth In The Field Of Computers And Information Technology	TBAK College For Women	Sep-2001
8.	National	English Grammar and Usage	TBAK College For Women	Jun-2002
9.	National	Introduction to Design of Algorithms	Institute of Technology Kharagpur through ICT (MHRD)	27 th April to 30 th May,2015
10.	FDP	MOODLE LEARNING MANAGEMENT SYSTEM	IIT,Mumbai	06.06.2020-10.06.2020
11.	STTP	BIG DATA ANALYTICS	SARANATHAN COLLEGE OF ENGINEERING ,THRICHIRAPALLI	16.11.2020 - 21.11.2020

12.	International Webinar	Recent advancements in machine learning, •	Arul Anandar College, karumathur	18.03.2021 & 19.03.2021
13.	National	SETHU INSTITUTE OF TECHNOLOGY	SUCCESSFUL STARTUP FOUNDER	11.3.21 (1 Day)
14.	STTP	Exploring Real World Applications Of Block Chain Technology With Machine Learning Models(Sttp)	K.L.N College Of Engineering, Sivganga	22.2.2021-27.2.2021
15.	National Level STTP	On Quality Enhancement Of Research In Heis,	Department Of Mathematics, Psgrkcw, Coimbatore	23.09.2021-25.09.2021 (3days)
16.	ONLINE COURSE	PHP and MYSQL	IIT, MUMBAI	4.3.21
17.	FDP	Cyber Security	ICT Academy, Chennai	3 rd and 12 th Aug 2022, 8 days
18.	FDP	Intellectual Property Rights	The American College, Madurai	3 March 2023,

E-resource developed:

S.No	Name of the teacher / teachers	Name of the module developed	Platform on which module is developed	Date of launching e content	Link to videos
1.	Dr.M.Karthika	IoT	Slideshare	19.3.22	https://www.slideshare.net/DrMKArthikaparthasar/introduction-to-iot-unit-ii
2.	Dr.M.Karthika	IoT	Slideshare	12.4.22	https://www.slideshare.net/DrMKArthikaparthasar/unit-2-iotpdf
3.	Dr.M.Karthika	Artificial Intelligence	Slideshare	12.4.22	https://www.slideshare.net/DrMKArthikaparthasar/unit-1-introduction-to-artificial-intelligencepptx

4.	Dr.M.Karthika	Synchronization in OS	Slideshare	1.10.21	https://www.slideshare.net/DrMKArthikaparthasar/examples-in-os-synchronization-for-ug
5.	Dr.M.Karthika	Monitor in OS	Slideshare	29.9.21	https://www.slideshare.net/DrMKArthikaparthasar/monitors-in-os
6.	Dr.M.Karthika	Introduction to IoT	Slideshare	15.3.22	https://www.slideshare.net/DrMKArthikaparthasar/introduction-to-iot-unit-i/DrMKArthikaparthasar/introduction-to-iot-unit-i
7.	Dr.M.Karthika	Overview of Deadlock	Slideshare	06.10.21	https://www.slideshare.net/DrMKArthikaparthasar/overview-of-deadlock-unit-3-part-1
8.	Dr.M.Karthika	Operating System	Slideshare	21.9.22	https://www.slideshare.net/KARTHIKAPARTHASARATH/UNIT-I-PART-1PPTX
9.	Dr.M.Karthika	CPU Scheduling	Slideshare	22.8.22	https://www.slideshare.net/KARTHIKAPARTHASARATH/UNIT-II-CPU-SCHEDULINGDOCX
10	Dr.M.Karthika	Heuristic Search Techniques	Slideshare	4.4.23	https://www.slideshare.net/karthikaparthasarath/heuristic-search-techniques-unit-iippt-257161924

E-Quiz Developed

S.No.	Year	Name of the Faculty	Date, Month, Year	Title of the e-Quiz and link	Name of the Channel/ e-portal
1.	2021	Dr.M.Karthika	10.10.2021	Operating system & https://quizizz.com/admin/search/%20operating%20system%20mkpartha13_65925	www.quizizz.com

Details of Books published :

S. No	Title of the Book	Name of the Publisher	ISBN No	Year
1	An Introduction to Robotics	SKGC Publisher	978-93-95341-17-2	DEC 2022
2	C Made Easy	SKGC Publisher	978-93-95341-18-9	DEC 2022

Number of Patents : 1

S. No	Title	Application No	Year
1	Classification of images based on extensive context and content feature set	202341035356 A	Sep 2023

Positions held at our college (MTNC):

S.No	Name of position	From	To
1.	Convener-Laboratory	1.6.2019	Feb-2020
2.	Convener-Anti ragging committee	1.6.2019	Dec 2021
3.	Convener-Research Advisory Committee	2023	Till Date

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.	FDP	Outcome based education	MannarThirumalaiNaicker College	August / 2020
2.	International workshop	Algorithmic Thinking and Problem solving	MannarThirumalaiNaicker College	January /2020
3.	State level workshop	Entrepreneurship opportunities in IoT	MannarThirumalaiNaicker College	February / 2020
4.	FDP	e-content development and digital tools usage	MannarThirumalaiNaicker College	February / 2020
5.	FDP	21 st Century skills	MannarThirumalaiNaicker College	March / 2020
6.	FDP	Education 4.0 for Sustainable Economic Development	Mannar Thirumalai Naicker College, Madurai	April 2022
7.	FDP	Dynamics of Research Publications	Mannar Thirumalai Naicker College, Madurai	15 &16,S ep 2022, 2 days
8.	FDP	Insights of National Educational Policy NEP2020	Mannar Thirumalai Naicker College, Madurai	March 2023
9.	FDP	Consultancy and Corporate Training	Mannar Thirumalai Naicker College, Madurai	March 2023