

MANNAR THIRUMALAI NAICKER COLLEGE

(Autonomous)

(Founded by the Tamilnadu Naidu Mahajana Sangam)

A Linguistic Minority Co- educational Institution

Re Accredited with 'A' Grade by NAAC

Pasumalai, Madurai – 04



PROFILE

NAME OF THE FACULTY : **Dr.P.Chitra devi**

DESIGNATION : **Assistant Professor**

DEPARTMENT : **PG and Research Department of Mathematics**



1. Name : Dr.P.CHITRA DEVI
2. Designation : Assistant Professor
3. D.O.J : 28.12.2017
4. Mail ID : chitradevi@mannarcollege.ac.in
chitrmathsmtn@gmail.com
5. Field of Specialization : Stochastic Inventory Systems
6. Qualification : M.Sc., M.Phil., Ph.D,PGDCA
 - a) Ph.D Completed (year) : 2017
 - b) Ph.D Registered (year) : 2010
7. Teaching Experiencein
 - Till this year : 6 years 6 months
 - a. UG : 6 years 6 months
 - b. PG : 6 years 6 months
8. Subject Expert/ member in Board of Studies / Interview Panel / Doctoral Committee
University Nominee : Two
 - **Member in Board of Studies** for the Vellalar College for Women,Erode for three years 2022 to 2025
 - **Chair person for Online Paper Presentation** in National Conference on “Applications of Mathematics in Digital Era” by Hajee Karutha Rowther College, Utthamapalayam dated 06.10.2023

9. Details of recognized research guides

S.No	Subject	Date & Month of award of Guideship	Guideship Number
1.	Mathematics	May 2022	2178/22

10.Details of Ph.D Candidates : 1(pursuing)

S. No	Name of the Scholar with Register Number	Name of the Guide / Co-Guide	Title of the Thesis	Date of Registration	Pursuing / Submitted
1	Mrs. H MUMTAJ BEGUM REGN NO.: MKU24FFOS11483	Dr.P.Chitra Devi	Stochastic Analysis Of Multicommodity Inventory Systems	01.05.2024	Pursuing

11.Number of Papers / Posters Presented/ Conferences / Seminars : 4

- **Inventory System with Multiple Vacation under N-Policy** presented on Two-day International Conference on Exploration of Contemporary Mathematical Sciences – 2022 (ICECMS – 2022) conducted by PG and Research Department of Mathematics, Mannar Thirumalai Naicker College, Madurai on 17/03/2022 & 18/03/2022
- **A Perishable Two-Commodity Inventory** presented on National Conference on Presence Scenario in Mathematical Research (PSMR – 2022) conducted by PG and Research Department of Mathematics, Mannar Thirumalai Naicker College, Madurai on 22.04.2022
- **A Perishable Two-Commodity Inventory** presented on National Conference on Presence Scenario in Mathematical Research (PSMR – 2022) conducted by PG and Research Department of Mathematics, Mannar Thirumalai Naicker College, Madurai on 22.04.2022
- **A Perishable Two- commodity System with Heavy Demand for the First Commodity Associated with An Offer of Second Commodity** presented on National Conference on Recent Advancements in Pure and Applied Mathematics

conducted by PG and Research Department of Mathematics, Mannar Thirumalai Naicker College, Madurai on 10.03.2024

10. Number of M.Phil / Ph.D Thesis Evaluated : 1

Mrs.M.Dhanalakshmi (2021PR0013) guided by Mrs.P.S.Kayalvizhi titled “**A Study on Sequential Coupled Differential Equations of Fractional Order**” submitted on December 2022 to Bharathiar University

11. Details of Book chapter: 1

- **Prominent Features for Women in Indian Constitution** – Chapter on “ Evolution of Women’s Rights in India:Progress, Challenges and Future Avenues for Equality” published by Mannar Thirumalai Naicker College, Madurai on 12.03.2024.ISBN NO:978-93-90203-91-

12. Details of Orientation and Refresher courses: 3

a. Orientation Courses: 2

b. Refresher Courses : 1

- One month Faculty Induction Programme by UGC- HRDC ,Bharathidasan University, Trichy from 18.11.2020 to 17.12.2020
- 14 days Refresher Course on “Mathematics & Computer Science” by UGC- HRDC, DAVV, Indore from 07.12.2021 to 20.12.2021
- 14 days Refresher Course on “Mathematics” by Teaching Learning Centre and Department of Mathematics, Ramanujan College, University of Delhi from 13.07.2023 to 23.07.2023

13. Details of Paper Publications: 3

- Neutrosophic Bipolar Vague Line Graph published in Gorteria Journal June 2021, Volume 34, Issue 6 <https://fs.unm.edu/neut/NeutrosophicBipolarVagueGraph.pdf>
- Neutrosophic Bipolar Vague Incidence Graph published in Gorteria Journal ,August

2021, Volume 34, Issue 8

https://www.researchgate.net/publication/347481062_Neutrosophic_Vague_Incidence_Graph

- Some Fixed Point Theorem On E-Metric Space Using Cyclic Mappings published in Journal of Mathematical And Computer Science, October Volume 11, No.6
<http://scik.org/index.php/jmcs/article/view/6773>

14. Number of Conferences, Seminars, Workshops and other Programmes Organized: 3

- National Seminar on **Applied Mathematics & IPR** conducted by PG and Research Department of Mathematics, Mannar Thirumalai Naickar College, Madurai on 20.12.2019
- Seminar on **Global Trends in Mathematical Modeling and Patent Filing** conducted by PG and Research Department of Mathematics, Mannar Thirumalai Naickar College, Madurai on 22.03.2022
- Inter-Collegiate Meet – **Math Maestro 2024** conducted by PG and Research Department of Mathematics, Mannar Thirumalai Naickar College, Madurai on 22.02.2024

15. Bibliometrics of the publications based on Scopus Index/ Web of Science or Pub Med / h-index Indian Citation Index

S.No	Name of the Author/s	Title of the Paper	Name of the Journal	Month & Year of publication	No. of Citation Index	No. of H Index	Indexed in Scopus / Web of Science	Name of the Institution
1	P Chitra Devi, B Sivakumar, A Krishnamoorthy	Optimal control policy of an inventory system with postponed demand	RAIRO-Operations Research-Recherche Opérationnelle	2016	7	2	Yes	Mannar Thirumalai Naicker College, Madurai
2	V Radhamani, PC Devi, B Sivakumar	A stochastic inventory system with postponed demands and infinite pool in discrete-time setup	Journal of the Operations Research Society of China	2014/12	4	2	-	Mannar Thirumalai Naicker College, Madurai

16. Number of Projects Guided : 24

- a. UG :7
b. PG :15
c. M.Phil :2

S.No	Title of the Project	Name of the Student	Register No	Name of the Organization	Year
1.	A Dominating Set in Internal and Circular Graphs	N.Suganya M.Phil	197215EP153	Mother Teresa Women's University, Kodaikanal.	April 2023
2.	A Study on CDPU Hypergraphs in Graphs	G.Sugumari M.Phil	207215EP155	Mother Teresa Women's University, Kodaikanal.	April 2023
3.	A study on Inventory system with Postponed demands	Kayalvizhi. N M.Sc	18RPMT004	PG & Research Department of Mathematics, MTNC	June 2020
4.	A study on Genetic algorithm – improvement and application	Periyarvasantham. K M.Sc	18RPMT014	PG & Research Department of Mathematics, MTNC	June 2020
5.	A study on optimal control of service parameter for a perishable Inventory system with service facility, postponed demands and finite waiting hall	Azhagappan. A M.Sc	18RPMT023	PG & Research Department of Mathematics, MTNC	June 2020
6.	A study on a finite source Inventory system with	Manikandan. N M.Sc	18RPMT035	PG & Research Department of Mathematics,	June 2020

	postponed demand and modified M. Vacation policy			MTNC	
7.	A Study on Operations Research in Passenger Railway Transportation	Anandhi.R Harshini.S Sakthi Priya.K Sangeetha. D B.Sc	18RUMT004 18RUMT010 18RUMT023 18RUMT046	PG & Research Department of Mathematics, MTNC	April 2021
8.	A Study on Number Theory and Its Application	Madhumitha. M Sudharani. L Manickam.M Satham Hussain.A B.Sc	18RUMT017 18RUMT029 18RUMT035 18RUMT041	PG & Research Department of Mathematics, MTNC	April 2021
9.	A Study On Path Optimization Using Algorithm	Gowri J M.Sc	20RPMT007	PG & Research Department of Mathematics, MTNC	April 2022
10.	A Study On Complex-Valued Neural Network With Mobius Activation Function	Mano Ranjitham P M.Sc	20RPMT016	PG & Research Department of Mathematics, MTNC	April 2022
11.	A Study On Fourier Analsis	Sathyabanu G,M M.Sc	20RPMT025	PG & Research Department of Mathematics, MTNC	April 2022
12.	A Study On Inexactness Of SDP Relaxation And Valid Inequalities For Optimal Power Flow	Shahul Hameed S M.Sc	20RPMT034	PG & Research Department of Mathematics, MTNC	April 2022
13.	A Study Of Spectral Graph Theory Of Brain Oscillations	Dhivya V Kirthiga N Sam S B.Sc	19RUMT005 19RUMT012 19RUMT042	PG & Research Department of Mathematics, MTNC	April 2022
14.	Basic Linear Algebra For Machine Learning	Priyadharhini P Semparuthi N B.Sc	19RUMT0191 9RUMT026	PG & Research Department of Mathematics, MTNC	April 2022
15.	A Study On Algebraic Games:The Game Of Groups And Rings	G. Brindha M.Sc	21RPMT006	PG & Research Department of Mathematics, MTNC	April 2023
16.	A Study On Matching Domination In Graphs	M.Keerthika M.Sc	21RPMT015	PG & Research Department of Mathematics, MTNC	April 2023
17.	A Study On Domination For Some Graphs And Its Application	R. Sathya M.Sc	21RPMT025	PG & Research Department of Mathematics, MTNC	April 2023
18.	A Study On Criminal Network For Identifying Its Leaders Using The Spanning Tree	K. Karthick Raj M.Sc	21RPMT035	PG & Research Department of Mathematics, MTNC	April 2023

19.	A Study on Applications of Graph Theory	M. Kanmani M. I. Tasneem N. Nagaarjun P. Vijay B.Sc	20RUMT006 20RUMT016 20RUMT026 20RUMT032	PG & Research Department of Mathematics, MTNC	April 2023
20.	A study on Mathematical tools Using in Cryptography	J.Keerthanasri M. Priyadharshini M.Sonia Gandhi B.Sc	21RUMT006 21RUMT013 21RUMT025	PG & Research Department of Mathematics, MTNC	April 2024
21.	The Golden Ratio	S.Kathirvel P.Lakshmanan B.Sc	21RUMT032 21RUMT043	PG & Research Department of Mathematics, MTNC	April 2024
22.	A Study On Game Theoretical Modeling Of Network/Cyber Security	M.Jothirani M.Sc	22RPMT003	PG & Research Department of Mathematics, MTNC	April 2024
23.	A Study On Stimulation Of Blockchain Systems Using Queuing Theory	S.Sam M.Sc	22RPMT012	PG & Research Department of Mathematics, MTNC	April 2024
24.	A Study On Queuing Theory In Theme Park	R.Nithya shree M.Sc	22RPMT019	PG & Research Department of Mathematics, MTNC	April 2024

14.Details of Workshops / Seminars / Conference attended : 54

S.No	Name of the Programme	Name of the Institution	Date
1.	Workshop on “Technicalities of Writing Research Proposal	Research Committee, M.T.N.College, Madurai	29.06.2018
2.	Webinar on “ Qualitative Analysis of Differential Equation and its Application”	Dept. Of Mathematics, G.T.N. Arts College, Dindigul.	21.05.2020
3.	Webinar on Graph theory & human factors in aviation	GVN College , Kovilpatti	3 to 5.6.2020
4.	Webinar on Fuzzy logic & its application	Rohini College of Engineering and Technology, Kanyakumari	12.6.2020
5.	Webinar on Polynomials associated with graphs	Tirunelveli dhakshina maranadar snagam College , T,Kallikulam	15.6.2020
6.	Webinar on Edge coloring in graphs	Pope’s College	18.6.2020
7.	Webinar on Introduction to matlab	Gobi Arts and Science College	26.6.2020
8.	Webinar on Recent trends in mathematical modeling	MTNCollege	27.06.2020

9.	Webinar on Graph coloring problems	VOC College, Thoothukudi	8.7.2020
10.	Webinar on Soft-computing by soft sets	Don Bosco College	10.7.2020
11.	Webinar on Online Assessment Tool	PG & Research Department of Mathematics, A.D.M. College for Women, Nagapattinam	27.07.2020
12.	Webinar on Mathematical Analysis and Probability	JK College , Purulia, west Bengal	04.10.2020
13.	Webinar on Tactics on Writing Articles in High Impact Social Science Journals	Rajapalayam Raju's College	19.10.2020
14.	Webinar on Blockchain	Jerusalem College of Engineering	28.10.2020
15.	Workshop on "How to make our Communication Effective in Virtual Teaching	Department Of Applied Science, Sagar Institute Of Research & Technology, Bhopal	28.10.2020
16.	Conference on Algebraic Graph Theory and Application	Department of Mathematics, Presidency University , Kolkata.	21.11.2020
17.	Webinar on Role of Human Resource and Organizational Behaviour in Business Sustainability	Institute of National Excellence and Management, Ghaziabad , Uttar Pradesh	25.11.2020
18.	Should Teachers And Students Be Friends On Social Media	Department Of Maths, VVV College, Tripura	15.06.2021
19.	Implementation of Academic Bank of Credits	Guru Angad Dev Teaching-Learning Centre, SGTB Khalsav college, University of Delhi	10.07.2021
20.	The Importance of Data Visualization	Guru Angad Dev Teaching-Learning Centre,SGTB Khalsa college, University of Delhi	10.08.2021
21.	Climate Change	HRDC, Bharadhidasan University, Trichy	11.08.2021
22.	International virtual conference on Applications of Mathematics	Department Of Mathematics, Government Arts College, Trichy	04.09.2021
23.	Teacher's e-Kit: A Four Quadrant Approach for Development of OERs for Higher Education	Guru Angad Dev Teaching-Learning Centre, SGTB Khalsa college,University of Delhi	09.09.2021
24.	Recent Advances in Fractional Calculus	Department of Mathematical Sciences, P. D. Patel Institute of Applied Sciences (PDPIAS), Charotar Department of Mathematical Sciences, P. D. Patel	30.09.2021 to 01.10.2021

		Institute of Applied Sciences (PDPIAS), Charotar	
25.	Art of Successful Living with Maths	Department of Mathematics , NMSS Vellaichamy Nadar College, Madurai	25.10.2021
26.	Industrial Revolution 4.0: A Synergistic Approach Through Resilience, Reinvention and Sustainable Development	IQAC, Shree L.R.Tiwari Degree College of Arts, Commerce & Science & University Of Mumbai	05.02.2022
27.	Recent Advances on Mathematics	Department of Mathematics, Shree Shivaji Arts, Commerce & Science College, Rajura, Dist. Chandrapur & Vidya Vikas Arts, Commerce & Science College, Samudrapur, Dist. Wardha	31.03.2022
28.	Intellectual Property Rights & Patent Filing	Department of Physics, Department of Mathematics, Indira Gandhi Kala Mahavidyalaya, Ralegaon in collaboration with Knowledge Resource Center	08.04. 2022
29.	Two days In-service Teacher Training programme	Sri Meenakshi Government Arts College for Women, Madurai	05.05.2022 & 06/05/2022
30.	Educational Framework for Global Citizenship	UGC –HRDC Bharathidaasan University, Trichy	27.06.2022
31.	Changing Role of Teachers : NEP (2020) Perspectives	UGC HRDC Bharathidasan university, Trichy	08.09.2022
32.	Fuzzy Mathematics	Gonzaga College of arts and Science for women , Kathampallam , Elathagiri	26.12.2022
33.	Non –Linear Optimization in Mathematics	Operational Research Society of India, Meerut chapter	16.10.2022
34.	Contemporary issues in Sustainable supply chain MANAGEMENT , Modelling and Optimization	Operational Research Society of India, Meerut chapter	24.09.2022
35.	Latex	IQAC & Department of Commerce , SSC College of Arts and Commerce , Thane	18.07.2022 to 23.07.2022
36.	Future of Teaching Learning	Guru Angad Dev Teaching-Learning Centre,SGTB Khalsa college, University of Delhi	29.11.2022
37.	Multidisciplinary in the context of NEP 2020	UGC-HRDC, Kannur University	28.06.2022
38.	Changing Role of Teachers: NEP (2020)Perspectives	UGC-HRDC, Bharathidasan University , Trichy	08.09.2022

39.	Contemporary Issues in Sustainable Supply Chain Management: Modeling and Optimization	Operational Research Society of India, Meerut Chapter	24.09.2022
40.	Non-Linear Optmization in Mathematica	Operational Research Society of India, Meerut Chapter	16.10.2022
41.	Current Trends in Applied Mathematics & IPR- 2022	PG & Research Department of Mathematics, MTNC	7.10.2022
42.	IP Awareness / Training Program	National Intellectual property Awareness Mission, India	7.10.2022
43.	Fuzzy Mathematics	PG Department of Mathematics ,Gonzaga College of Arts and Science for Women, Kathampallam, Elathagiri	26.10.2022
44.	Future of Teaching-Learning	Guru Angad Dev Teaching-Learning Centre,SGTB Khalsa college, University of Delhi	29.11.2022
45.	National Mathematics Day	PG & Research Department of Mathematics, MTNC	21.12.2022
46.	National Mathematics Day-World Record	PG & Research Department of Mathematics, MTNC	22.12.2022
47.	Recent Trends in Graphs and Networks in Digital World	Department of Mathematics,HKRH College, <u>Uthamapalayam</u>	03.03.2023
48.	Machine Learning: An Ice Breaker Between Materials Research and Data Science	SSN Research Centre, SSN Institutions Chennai	12.04.2023 & 13.04.2023
49.	National Conference on “Applications of Mathematics in Digital Era”	Hajee Karutha Rowther College, Utthamapalayam	06.10.2023
50.	State Level Technical Workshop on Intellectual Property rights	Mannar Thirumalai Naicker College	16.10.2023 & 17.10.2023
51.	State Level Workshop on “Differential Equations and its Equations”	M.S.P.Mandal’s Arts, Commerce and Science College, Kille- Dharur, Beed	21.10.2023
52.	Workshop on Differential Equations and its Applications	M.S.P. Mandala College, Beed	21.10.2023
53.	Online Conference on “Awareness of Malaviya Mission Teachers Training Program	Guru Angad Dev Teaching-Learning Centre, SGTB Khalsa college, University of Delhi	22.10.2023
54.	State level Conference on Evolution of Women’s Rights in India: Progress, Challenges and Future	Department of History, Mannar Thirumalai Naicker College, Madurai	12.03.2024

	Avenues for Equality	
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17. Details of Professional development Programmes attended : 23

a. Faculty Development Programmes (FDP) : 22

b. Training Programmes : 1

S. No	Name of the Professional Development Programme	Date and No.of Days	Name and address of the Institution imparting training
1.	Outcome Based Curriculum	1 day/ 09.03.2019	IQAC,MTNC
2.	e-content Development and Digital tools usage	1 day / 29.02.2020	IQAC,MTNC
3.	21 st Century Skills	1 day / 05.03.2020	IQAC,MTNC
4.	Quality Assurance and Sustenance in Higher Education	1 day / 11.03.2020	IQAC,MTNC
5.	Faculty Enrichment Program	1 week / 13.5.20 to 19.5.20	IQAC,MTNC
6.	Faculty Research Program: Dynamics in Research Publications	2 days / 15 & 16.09.2022	IQAC,MTNC
7.	Faculty Induction Programme	One month/ 23.4.19 – 22.5.19	Gandhigram Rural Institute, Gandhigram
8.	Data Analysis and Visualisation of COVID – 19 Data set Using PYTHON	1 day / 07.05.2020	Department of Commerce , Jerusalem College of Engineering with CIRF, Chennai.
9.	Fuzzy Sets & Systems	1 day / 16.5.20	Dept. Of Mathematics , Shift I, Patrication College Of Arts & Science , Chennai.
10.	Application Of Optimization Techniques In Science & Engineering Research	5 days / 23.8.20 To 27.8.20	BKBIET-PILANI, Rajasthan
11.	Research Ethics	2 days / 29 & 30.03.2021	Central Library , Vivekandha College , Madurai
12.	Applicable Mathematics And Programming In Science And Technology”	6 days / 7.6.21 to 12.6.21	Department Of Mathematics, Mohamed Shadak A J College Of Engineering, Chennai
13.	Advanced Graph Theory	3 months / Feb- April 2021	NPTEL , IIT Patna.

14.	Applicable Mathematics and Programming in Science and Technology”	07.06.2021 to 12.06.2021	Department of Mathematics, Mohamed Shadak A J College of Engineering, Chennai
15.	Introduction to Operations Research	8 Weeks Feb – April 2022	NPTEL , Indian Institute of Technology, Madras
16.	Latex	18 th – 23 rd July 2022.	IQAC & Department of Commerce ,SSC College of Arts and Commerce, Ulhasnagar, Thane
17.	Dynamics on Research Publications	15&16 th September 2022	IQAC & Research Committee, MTNC
18.	Current Trends in Applications of Mathematics	21.09.2022 to 04.10.2022	Department of Mathematics , School of Sciences and Humanities, Vel Tech Rangarajan Dr.Sagunthala R & D Institute of Science and Technology , Chennai .
19.	Introduction to Probability and Statistics	Jan-Feb 2023	NPTEL , Indian Institute of Technology, Madras
20.	Numerical Methods: Finite Difference Approach	Jan-Feb 2023	NPTEL , Indian Institute of Technology, Patna
21.	Two days In-service Teacher Training programme	05.05.2022 & 06/05/2022	Sri Meenakshi Government Arts College for Women, Madurai
22.	Applied Mathematics and Computing	12.06.2023 & 16.06.2023	Madhav Institute, Gwalior
23.	Advanced and Technical Computing with MATLAB	27.07.2023 & 31.07.2023	Presidency University, Bangalore.

18. Other Services Rendered in the College :

(NAAC, IQAC, Sports, Cultural Activities, Hostel, Department Association, Placement, Club, Examination, etc.,)

S. No	Name of the Activity	Period
1.	Member of Women’s Development Cell	From June 2018 to June 2023
2.	In charge for the Add on Course “Audio & Video Production”	From June 2018 to June 2023

3.	In charge for the Department Library	From December 2018 to till date
4.	Member of Anti – Ragging Committee	2018-2019
5.	Member for Science and Communication Club	2019-2020 , 2020-2021
6	Convenor of Red Ribbon Club	From July 2023

OTHER PARTICULARS

S.No	Stock Verification Committee	Position	Year
1.	i. Furniture/ Electrical Items ii.Rani Mangammal Hostel	Member	2018-2019
2.	Library	Member	2019-2020
3.	Videography Laboratory	Convenor	2020-2021
4.	Videography Laboratory	Convenor	2021-2022
5.	Videography Laboratory	Convenor	2022- 2023
6.	Videography Laboratory	Convenor	2023- 2024



Signature of the Faculty