



SHRIMATI INDIRA GANDHI COLLEGE

(Affiliated to Bharathidasan University)

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Tiruchirappalli - 620 002

Name : Ms.R.Maheswari
Designation : Assistant Professor
Department : PG & Research Department of Mathematics
Qualification : M.Sc., M.Phil.,(Ph.D)
Experience : Teaching: 14 Research: 4
Area of Specialization(s) : Topology
Email (Official ID) : maheswari@sigc.edu
Aadhar Number : 5708 2613 8596

Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
M.Phil	Mathematics	Seethalakshmi Ramaswamy College,Trichy.	2010
M.Sc	Mathematics	Seethalakshmi Ramaswamy College,Trichy.	2009
B.Sc	Mathematics	Seethalakshmi Ramaswamy College,Trichy.	2007

Research Publications (Indexed)

International:

1. R.Maheswari, M.A.Gopalan, J.Shanthi, V.Tamilselvi, A Peer Search on Integral Solutions to Non-Homogeneous Binary Quadratic Equation $15x^2-2y^2=78$, Journal of Scientific computing, ISSN NO 1524-2560, vol 9, Issue 3, 2020, PgNo.108-131.
2. R.Maheswari, V.Anbuvali, M.A.Gopalan, V.Vidhya, ON THE INTEGRAL SOLUTIONS OF HYPERBOLA $8x^2-3y^2=45$, Journal of Information and Computational Science, ISSN NO 1548-7741, Vol 10, Issue 3, 2020. Pg. No 1575-1594.
3. M.A.Gopalan, S.Vidhyalakshmi, R.Maheswari, “On Homogeneous Ternary Quadratic Diophantine Equation $4(x^2 + y^2) - 7xy = 16z^2$ ” in SJET 2014; 2(5A):676-680.
4. M.A.Gopalan, S.Vidhyalakshmi, R.Maheswari, “On Homogeneous Ternary quadratic Diophantine Equation $a(x^2 + y^2) - bxy = 4az^2$, $b \neq 2a$ ”, in IJAR 2015;1(6):88-91.

5. R. Maheswari, Dr. K. Rekha, S. Priyanga, Decision Making of Bacterial Leaf Blight Diseases of Rice by Using the Concepts of Nano Topology, IJRPR, Vol 4, no 2, pp 1018-1022, February 2023. pg No.1018-1022.
6. Maheswari, Dr. K. Rekha, R. Ragavi, Elimination of Attributes in Coccidiosis with Cattle Disease Through Nano Topology, IJRPR, Vol 4, no 2, pp 1018-1022, February 2023. pg No.1009-1017.
7. R. Maheswari, K. Kathirolu, Decision Making of Bacterial Leaf Blight Diseases Of Rice by using the concepts of Nano Topology, International Journal of Research Publication and Reviews, Oct 2023, Vol 4, no 10, Pg No.3083-3092.
8. R. Maheswari, P. Lavanya, Elimination Of Attributes In Peptic Ulcers In Human Being Via Nano Topology, International Journal of Research Publication and Reviews, Oct 2023, Vol 4, no 10, Pg No.3072-3082.
9. R. Maheswari, K. Rekha, $N_S D_L Nl$ and $N_{QS} D_L Nl$ -spaces in D_L -Nano topological space, Indian Journal of Science and Technology, Vol 17 No. 43 (Nov 2024) 4552-4557.
10. R. Maheswari, K. Rekha, Initial Grill Nano Topological Spaces With Initial Grill Nano Generalized Closed Sets, Jnanabha, Vol. 54(2) (2024), 76-82.
11. R. Maheswari, R. Malathi, S. Nesha, Applications of Initial Right Nano Topological Space in Decision Making, IJRPR, Vol 6 (2) PP 3408-3413 (2025)
12. R. Maheswari, S. Nesha, R. Malathi, Evaluating the symptoms of Chronic Obstructive Pulmonary Diseases (COPD) in youngsters by using initial right Nano Topological space, International Research Journal of Education and Technology, Vol:07 Issue:02, Feb 2025.

Presentations in Conference

International:

1. R. Maheswari, Dr. K. Reka, An Application of Nano Topological spaces with Decision making problem in COVID – 19 infection, International Conference on Scientific and Technological Advancements for Reliable and Sustainable future (STARS-2022), Bishop Heber College (Autonomous), Tiruchy-620017 on (16-18)th Nov 2022.
2. R. Maheswari, Dr. K. Rekha, S. Priyanka, Decision Making of Bacterial Leaf Blight Diseases Of Rice by using the concepts of Nano Topology, International Conference on Pure and Applied Mathematical Science, Shrimati Indira Gandhi College, Tiruchy-620003 on 15.02.2023

3. R. Maheswari, Dr.K.Rekha,R.Ragavi,Elimination of Attributes in Coccidiosis with Cattle Disease through Nano Topology, International Conference on Pure and Applied Mathematical Science,Shrimati Indira Gandhi College,Trichy-620003 on 15.02.2023.
4. R. Maheswari,K.Kathirolu, Diagnosing Hyperthyroidism In Women Using The Concepts Of Nano Topology,IAMPS 2023,SIGC,Trichy on 20.09.23.
5. R. Maheswari, P.Lavanya, Elimination Of Attributes In Peptic Ulcers In Human Being Via nano Topology, IAMPS 2023,SIGC,Trichy on 20.09.23.
6. R. Maheswari, Dynamic Nano topological space generated by the initial left neighborhood through ideals, ICRTMA-24, The Department of Mathematics, AIMAN college, Trichy on 23.02.2024.
7. R. Maheswari, Nesha, Evaluating the causes of Adults onset stress via nano topology,International Conference on Emerging trends in Mathematics and Physical Sciences, SIGC on 24.09.2024.
8. R. Maheswari, R. Malathi, Applying Initial right nano topological spaces for Nutrition Analysis in diet, International Conference on Emerging trends in Mathematics and Physical Sciences, sigc on 24.09.2024.
9. R.Maheswari,An Applications of D_R Nano topological space is assessing the key factors that influence stress,ICRTAM 25,Holy Cross College,Trichy on 06.02.2025.

FDP/Webinar

- Attended the Webinar on CSIR/NET Examination at Urumu Dhanalakshmi College, Trichy on 27.05.2020
- Attended the Webinar Online Teaching Tools Bishop Heber College, Trichy on 30.05.2020.
- Participated in the Faculty Development Programme on Mobility in the Noble profession at Shrimati Indira Gandhi College, Trichy on 20.01.2020.
- Participated in the FDP on Math Modelling and Computational Modelling organized by the Department of Mathematics, CMR Institute of Technology, Bangalore from 24.01.2020 to 28.01.2020.
- Participated in a six-day National level virtual faculty Enrichment program on “Aligning with the new education Era” by Primax Foundation from 21.02.2022 to 26.02.2022.

- Participated IP Awareness Program under NIPAM on 26.04.2023.
- Attended International Webinar on Applications of MATLAB organized by Department of Mathematics and Statistics, ST. Francis College on 13.07.2023.
- Attended FDP Data Literacy with Tableau organized by NAAN MUDHALVAN from 24.07.2023 to 28.07.2023 at BDU.
- Participated in the "NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme of UGC" organized by UGC Malaviya Mission Teacher Training Centre, Bharathidasan University, Trichy from 19th Feb 2024 to 28th Feb 2024.
- Attended FDP on "Understanding outcome based education" organized by IQAC, SIGC from 10.06.2024 to 15.06.24 and 18.06.24.
- Attended FDP on "A platform for Augmentation of Multilingual Digital Resources for Development" organized by Vikaspedia on 20.02.2025.