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DEPARTMENT OF MATHEMATICS

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**FACULTY  
ACHIEVEMENTS**



# Faculty Research Details

**Ph.D**

**Supervisor**

**1**

**Ph.D**

**Awarded**

**4**

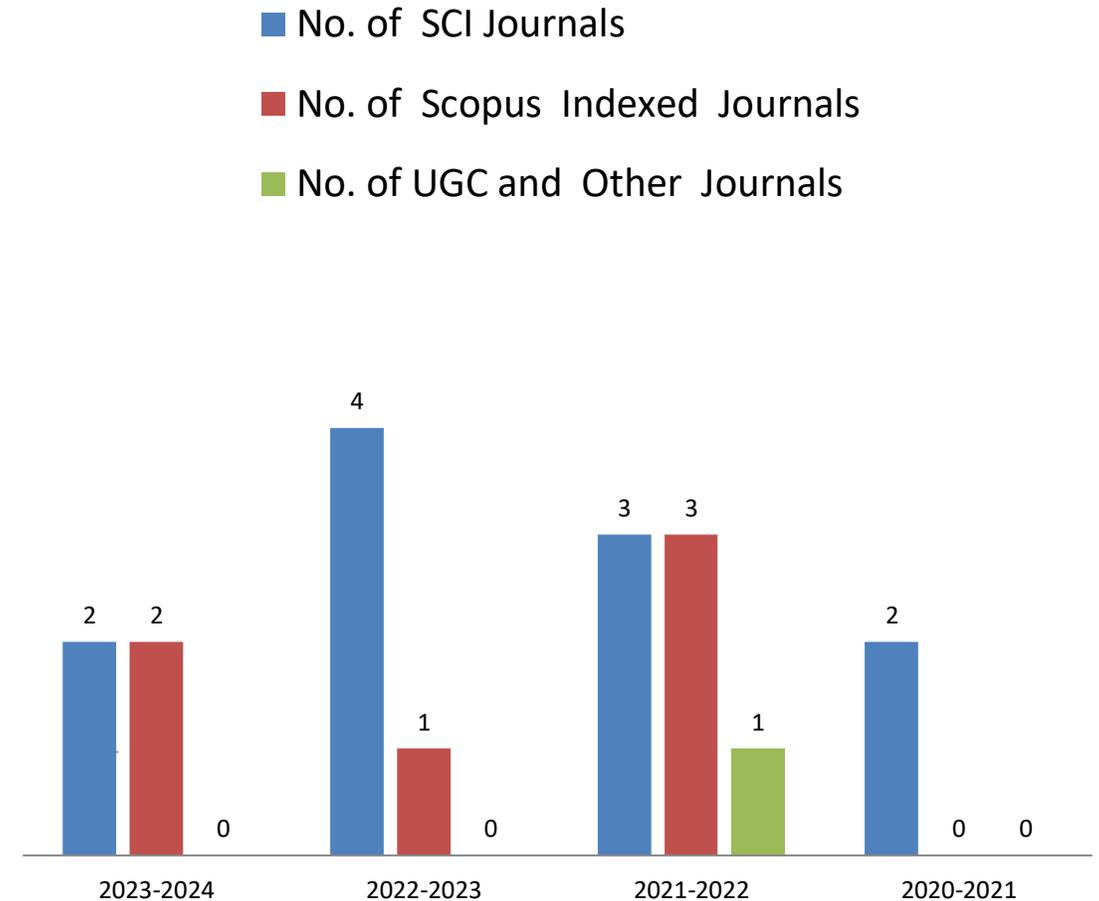
**Ph.D**

**Pursuing**

**4**

# Faculty Publications

S.No	Year	No. of SCI Journals	No. of Scopus Indexed Journals	No. of UGC and Other Journals	Total
1	2023-2024	2	2	0	3
2	2022-2023	4	1	0	5
3	2021-2022	3	3	1	7
4	2020-2021	2	0	0	2



# Research Paper Published 2023-24

Sl No	Faculty Name	Title of the Paper	Name of the Journal	Vol.No. Issue No., Page No.
1	Mrs. M. Geetha	Development and Characterization of Sustainable Bioplastic Films Using Cellulose Extracted from <i>Prosopis juliflora</i>	Journal of Natural Fibers (SCI)	Vol.20, Iss.2, Page No: 1-17
2	Mrs. M. Geetha	Investigation of Fiber-Based Bag Filter Coated with Metal Oxides for Dust Adsorption	Fibers (SCOPUS)	Vol.11, Iss.1, Page No: 1-11
3	Mr. P. Pandiaraj	Further Results on (a, d) – Total Edge Irregularity Strength of Graphs	Baghdad Science Journal (SCOPUS)	Vol. 20., Iss 6., Page No: 2498 - 2507
4	Mrs. M. Geetha	A sequential hybrid optimization algorithm (SHOA) to solve the hybrid flowshop scheduling problems to minimize carbon footprint	Processes (SCI)	Vol. 12., Iss 1, Page No:I-XVII

# Research Paper Published 2022-23

Sl No	Faculty Name	Title of the Paper	Name of the Journal	Vol.No. Issue No., Page No.
1	Mrs. M. Geetha	Mechanical and Acoustic properties of Bagasse – Coconut Coir based Hybrid Reinforced Composites	Journal of Natural Fibers (SCI)	Vol.19, Iss.11, Page No: 4105-4114
2	Mrs. M. Geetha	Development of Eco-Friendly Cutting Fluid for Machining of AISI 1010 Steel in Automotive Industry	Sustainability (SCI)	Vol.14, Iss.15, Page No: 1-12
3	Mrs. M. Geetha	Extraction and development of starch-based bioplastics from Prosopis Juliflora Plant: Eco-friendly and sustainability aspects	Current Research in Green and Sustainable Chemistry (SCOPUS)	Vol.5, Iss.1, Page No: 1-9
4	Dr. N. Kamatchi	On the products of group vertex magic graphs	AKCE International Journal of Graphs and Combinatorics (SCI)	Vol. 19. Iss.3, Page No: 268-275
5	Dr. N. Kamatchi	A Characterization of group vertex magic trees of diameter up to 5	Australasian Journal of Combinatorics (SCI)	Vol. 85. Iss.1, Page No: 49-60.

# Research Paper Published 2021-2022

Sl No	Faculty Name	Title of the Paper	Name of the Journal	Vol.No. Issue No., Page No.
1	Mrs. M. Geetha	A memetic algorithm to solve uncertain energy-efficient flow shop scheduling problems	The International Journal of Advanced Manufacturing Technology (SCI)	Vol.115, Iss.1-2, Page No: 515-530
2	Mrs. M. Geetha	Solving industrial multiprocessor task scheduling problems using an improved monkey search algorithm(SCOPUS)	International Journal of Operational Research (SCOPUS)	Vol.41, Iss.1, Page No: 135-149
3	Mrs. M. Geetha	A novel palm sheath and sugarcane bagasse fiber based hybrid composites for automotive applications: An experimental approach	Polymer Composites (SCI)	Vol.41, Iss.1, Page No: 135-149
4	Mrs. M. Geetha	Development of hybrid composite materials for machine tool structures	Materials Today: Proceedings (SCOPUS)	Vol.47, Iss.19, Page No: 6746-6751

# Research Paper Published 2021-2022

Sl No	Faculty Name	Title of the Paper	Name of the Journal	Vol.No. Issue No., Page No.
5	Mrs. M. Geetha	Investigation on mechanical properties of automobile strut made by GFRP composites	Materials Today: Proceedings (SCOPUS)	Vol.45, Iss.2, Page No: 1338-1347
6	Dr. A.Maheswari	Odd Vertex Equitable Even Labeling of Duplication and Product graphs.	International Journal of Mathematical Combinatorics	Vol. 1, Page No: 56-64
7	Dr. N. Mehala	Mathematical Analysis for Electron Transfer Mediator /Heterogeneous Catalyst Composites in Polymer Modified Electrodes	International journal of electrochemical Science (SCI)	Vol 17, Iss.1., Page No: 1-14

# Research Paper Published 2020-2021

Sl No	Faculty Name	Title of the Paper	Name of the Journal	Vol.No. Issue No., Page No.
1	Mrs. M. Geetha	An improved particle swarm optimization algorithm to solve hybrid flowshop scheduling problems with the effect of human factors – A case study	Computers & Operations Research (SCI)	Vol.114, Page No: 1-8
2	Dr. N. Kamatchi	On group vertex magic graphs	AKCE International Journal of Graphs and Combinatorics (SCI)	Vol.17, Iss. 1 Page No: 461-465

# Research Paper Published 2019-2020

Sl No	Faculty Name	Title of the Paper	Name of the Journal	Vol.No. Issue No., Page No.
1	Mrs. M. Geetha	A Modified Elephant Herd Optimization Algorithm to Solve the Single Machine Scheduling Problems	International Journal of Engineering and Advanced Technology (SCOPUS)	Vol.9, Iss.4, Page No: 23-29
2	Mrs. M. Geetha	A hybrid algorithm to solve the stochastic flow shop scheduling problems with machine break down	International Journal of Enterprise Network Management SCOPUS)	Vol.10, Iss.2, Page No: 162-175

# Faculty Awards - NPTEL STARS

NPTEL Discipline Star 2022-23



Dr.K. Thanalakshmi ASP/MATHS

NPTEL Discipline Star 2023-24



Mrs. C. Revathy AP/ MATHS



NPTEL<sup>TM</sup>

# Faculty Awards - NPTEL TOPPERS

NPTEL Topper  
2022 & 23

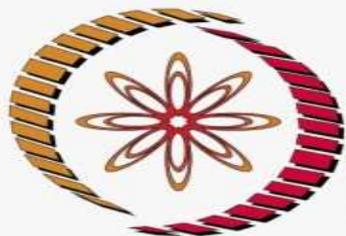


Dr.K. THANALAKSHMI  
ASP/MATHS

NPTEL Topper  
2022 & 23



Dr.A. MAHESWARI  
ASP/MATHS



NPTEL<sup>TM</sup>

# Faculty Awards - NPTEL TOPPERS

## NPTEL Toppers 2023



Dr. N. KAMATCHI,  
ASP/ MATHS



Dr. S. BRINDHA,  
AP/ MATHS



Mrs. M. GEETHA  
AP/ MATHS



Mrs. C. REVATHY  
AP/ MATHS



NPTEL<sup>TM</sup>

# Faculty Awards - Best Reviewer



**Dr. N. Kamatchi**  
**ASP/ MATHS**

NIT Calicut awarded an excellence in reviewing award for a wonderful contribution to the caliber of the AIP/CCIS Springer Conference Proceedings in September 2020.

# **FACULTY ACHIECEMENTS**

- **Dr. N. Kamatchi Enlisted in World Scientits and University Ranking 2023 published by AD Scientific Index during October 2023.**
- **Mrs. M. Geetha Enlisted in World Scientists and University Ranking 2023 published by AD Scientific Index during October 2023.**
- **Mrs. M. Geetha Enlisted in World Scientists and University Ranking 2022 published by AD Scientific Index during October 2022.**