

Govindammal Aditanar College for Women, Tiruchendur

Faculty Profile



1. Name (in Block Letters) : Dr. R. USHA PARAMESWARI

2. Department : Mathematics

3. Qualification : M. Sc., M.Phil., Ph.D., SET

4. Present Designation : Associate Professor

5. Contact No. : 9385503425

6. Email id : rushaparameswari@gmail.com

Vidwan id : 595334

Vidwan Link : <https://vidwan.inflibnet.ac.in/profile/595334/NTk1MzM0>

7. Date of joining : 17.07.2006

8. Field of specialization in research : Topology

9. Title of the Thesis : A study on generalization of b-open sets and related concepts in topology

10. Orientation/FDP programmes/other short-term courses attended

| Sl.No. | Name of the course | University/ Institute | Duration in days | From - To |
|--------|--|--|------------------|--------------------------|
| 1. | Online faculty development programme on “Appraisal of mathematical learning outcomes in cybergogy environment” | Arul andavar college (Autonomous), Karumathur, Madurai(Dt) | 3 | 15.07.2020 to 17.07.2020 |
| 2. | Two day faculty development programme on “Online teaching and research tools”(online) | Govindammaladitanar college for women, Tiruchendur. | 2 | 20.07.2020 & 21.07.2020 |

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| 3. | Online international faculty development programme on “Recent trends in Mathematics” | V. O. Chidambaram college, Thoothukudi. | 5 | 21.06.2021 to 25.06.2021 |
| 4. | One day national level faculty development programme on “Professional guidance on writing research articles and applying for funded projects” | Sarah Tucker college(Autonomous), Tirunelveli. | 1 | 07.06.2021 |
| 5 | Unveiling emerging research trends in mathematics | SRM Madurai college for Engineering and technology, Chinthamani, Madurai. | 2 | 20.08.2024, 21.08.2024 |

11. Participation /Presentation in seminar/workshop/symposia/conference:

| Sl. No. | Level (State/national/international) | Participation /presentation | Title of the paper presented | Title of the seminar/workshop/symposia/conference | Date and Venue |
|---------|--------------------------------------|-----------------------------|--|---|--|
| 1 | National | Presented | On S_p – Closed Sets | National Seminar on Topology Category Theory Applications to Computer Science. | 23/10/2009&24/10/2009 All Saints College Thiruvananthapuram |
| 2 | National | Presented | On $b^{\#}$ – Connectedness and $b^{\#}$ – Compactness | National Conference on Ramanujan’s Contributions and Recent Trends in Mathematics | 21/12/2015 to 23/12/2015 Madurai Kamaraj University, Madurai |
| 3 | National | Presented | gS_g^* – Closed set in Topological Spaces | National Seminar on New Dimensions in Mathematics and its Applications | 17/10/2018 Kamaraj College, Thoothukudi |
| 4 | National | Presented | On $g^* b^{\#}$ – Continuous functions in Topological Spaces | National Level Seminar on Emerging Trends in Pure Mathematics | 19/08/2019 Aditanar College of Arts & Science, Tiruchendur |
| 5 | National | Presented | An α - Generalized g^* Closed set in Topological Spaces | National Conference on Pure & Applied Mathematics | 25/09/2018 Wavoo Wajeetha Women’s College of Arts & Science, Kayalpatinam |
| 6 | National | Presented | On Trigonometrically Topological Spaces | International Conference on Applied Mathematics | 20/01/2020, 21/01/2020 A.P.C. Mahalaxmi College for Women, Thoothukudi |
| 7 | International | Participated | | International Virtual | 28.10.2022 & 29.10.2022 |

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| | onal | | | Conference on Progress in Mathematics towards Industrial Applications (PMTIA - 2022). | SRM INSTITUTE of Science and Technology, Ramapuram Campus. |
| 8 | National | Participated | | Two days online workshop on “Free and open source alternative for web conferencing and teaching learning” | 15.07.2020 & 16.07.2020 Mahatma Gandhi institute of technology, Hyderabad, Telangana. |
| 9 | National | Participated | | National webinar on “Career awareness programme” | 22.07.2020 Govindammaladitanar college for women, Tiruchendur. |
| 10 | National | Participated | | One day webinar on “Linear algebra and its applications” | 30.07.2020 Nachiappaswamigal arts and science college, Koviloor. |
| 11 | | Participated | | One day webinar on “Guidance to career and competitive examinations during COVID-19” | 31.07.2020 Govindammaladitanar college for women, Tiruchendur. |
| 12 | National | Participated | | One day webinar on “Hands on Google drive and its applications” | 16.07.2020 Silicon city college of management and commerce, Bengaluru. |
| 13 | | Participated | | Webinar on “Applications of finite volume method in heat transfer problems” | 25.06.2021 Sri venkateswara college of engineering, Sriperumbudur. |
| 14 | State | Participated | | Webinar on “R-Near ring: A classic substructure” | 18.06.2021 Govindammaladitanar college for women, Tiruchendur. |
| 15 | National | Participated | | Webinar on “An introduction of different types of fuzzy sets and its operations” | 26.04.2021 Aditanar college of arts and science, Tiruchendur. |
| 16 | International | Presented | On t-neighbourhoods in trigonometric topological spaces | International virtual conference on bridging innovative trends in mathematics, engineering & technology. | 18.12.2020 to & 19.12.2020 Bannariamman institute of technology, sathyamangalam. |
| 17 | | Participated | | Webinar on “Solving transportation problems with MS Excel and solver” | 27.06.2020 Aditanar college of arts and science, Tiruchendur. |
| 18 | | Participated | | Webinar series on “Exploring advances in graph theory” | 15.06.2020 to 17.06.2020 Layola college, Chennai. |
| 19 | | Participated | | Webinar on “Linear programming problems: An introduction and application” | 20.06.2020 Sri Ramakrishna institute of technology, |

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| | | | | | Coimbatore. |
| 20 | National | Participated | | National webinar on mathematical analysis & topology” | 20.06.2020 G. Venkataswamynaidu college, Kovilpatti. |
| 21 | National | Participated | | Aptitude for CSIR NET | 11.06.2020 to 13.06.2020 Sathyabama institute of science and technology, Chennai |
| 22 | State | Participated | | Webinar on “Graph embedding” | 16.06.2020 Don bosco college of arts and science, Keelaeral. |
| 23 | National | Participated | | Webinar on “Polynomials associated with graphs” | 15.06.2020 Dakshanamara nadir college, Kallikulam |
| 24 | National | Participated | | Webinar on “What does spectral theorem really says?” | 13.06.2020 AnnaiHajira women’s college, Melapalayam |
| 25 | National | Participated | | Two day online seminar on recent research topics in mathematics | 28.05.2020 & 29.05.2020 Auxilium college, Vellore |
| | National | Presented | Travelling salesman problem-TSMCB by using complete bipartite method | One day conference on Recent trends in mathematics | 01.03.2024 Sarah tucker college(Autonomous), Tirunelveli |

12. Research publications:

| Sl. No. | Name of the Journal, Vol.& Issue no., year, pp. no. & ISSN no. | Title of the paper | UGC CARE listed journal (Yes / No) | Author Order |
|---------|---|--|------------------------------------|--------------|
| 1 | Advances in mathematics, Vol. 2 & issue no. 5, 2020, pp no. 2477-2488, ISSN no. 1857-8438 | On trigonometric topological spaces | Yes | 2 |
| 2 | International Journal of scientific research in modern science and technology, Vol. 2 & issue no. 7, July 2023, pp no. 28-33, ISSN no. 2583-7605 | Modified minimum allocation method – An optimal solution for transportation problem | No | 3 |
| 3 | International Journal of Food and Nutritional Sciences, Vol. VIII, No. 1(XL) (2022), 258-260. (e-ISSN : 2320-7876, p-ISSN : 2319-1775) (UGC Approved) | A New type of Neighbourhoods Using Sine Topology in Trigonometric Topological Spaces | Yes | 2 |
| 4 | Proceedings of National Conference on Emerging Trends in Discrete and | A New type of Neighbourhoods Using Cosine Topology in | Yes | 2 |

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| | Abstract Mathematics (NCETDAM-2022), 120-125 | Trigonometric Topological Spaces | | |
| 5 | Turkish Journal of Computer and mathematics Education, Vol.12, No.1S (2021), 655-658. (ISSN : 1309-4653) | On t-Neighbourhoods in Trigonometric Topological Spaces | Yes | 2 |
| 6 | International Journal of Mathematics Trends and Technology- Special Issue NCPAM-2019, 44-49. (ISSN : 2231-5373) | On α -generalized c^* -closed sets in topological spaces | No | 2 |
| 7 | International Organization of Scientific Research Journal of Mathematics , Vol.7,Issue 1, 2013, Page No: 63 -70, (ISSN: 2278-5728) | On Fuzzy γ - Semi open sets and Fuzzy γ - Semi closed sets in Fuzzy Topological Spaces | No | 1 |
| 8 | International Journal of Scientific and Engineering Research , Vol.4,Issue 9, 2013,Page No: 2035 - 2047(ISSN: 2229-5518) | On Fuzzy γ - Boundary and Fuzzy γ - Semi Boundary | No | 1 |
| 9 | International Journal of Mathematics Trends and Technology,Vol 5,No 3, 2014,Page No 202-218(ISSN: 2231 - 5373) | On $b^\#$ - Open sets | No | 1 |
| 10 | South Asian Journal of Multidisciplinary Studies , Vol 2,Issue No 3, 2014, pp No 181 - 196(ISSN: 2349 - 7858) | Locally $b^\#$ - Closed sets and weakly $b^\#$ - Closed sets | No | 1 |
| 11 | International Journal of applied research, Vol. 1, No. 8, 2015, pp345 – 350 (ISSN: 2394-7500) | On $b^\#$ - Separation Axioms | No | 1 |
| 12 | International Journal of Mathematics Archive , Vol. 9, No. 6, 2018,pp 150 – 154 (ISSN: 2229.5046) | Applications of $b^\#$ - Open Sets | No | 1 |
| 13 | ActacienciaIndica, Vol.XLIII M,No.2, 2017,pp 117-120(ISSN: 0970-0455) | On $g^* b^\#$ - Open Sets | No | 1 |
| 14. | SSRG International journal of | An inventive method for solving | No | 3 |

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| | mathematics trends and technology, special issue NCPAM 2019, PP No. 50-57, ISSN: 2231-5373 | fully interval transportation problem | | |
| 15 | Turkish Journal of Computer and mathematics Education, Vol.12, No.1S (2021), 319-322. (ISSN : 1309-4653) | A modern approach for finding minimization cost in transportation problem | No | 3 |

13. Membership in the academic bodies of the University /other institutions:

- Question **paper setter** for St.Mary's college, Thoothukudi and Kamaraj college, Thoothukudi,

14. Research achievements:

- Research Guide ship : Yes
- No. of students doing Ph.D. under the guidance of the faculty : 4
- No. of students awarded Ph.D. under the guidance of the faculty: 1
- No. of papers cited : 6 papers cited by 30

15. Seminars/Workshops / Enrichment programmes organized

| Sl.No. | Date | Name of the programme | Level (National/State /University/college) |
|--------|------------|---|--|
| 1. | 21.06.2020 | Workshop on effective online teaching methodologies | College |
| 2 | 18.06.2021 | webinar R-near ring, a classical sub structures | State |

16. Administrative / Other experience :

- Class Advisor : since 2006
- Staff Advisor of the College Union (2019-2020)
- Member of SSR preparation during I & II cycle of NAAC Accreditation
- Convener for Criterion I in AQAR preparation from 2016 onwards