

STAFF PROFILE



- 1) Name: **Dr. S. V. Padmavathi**
 2) Designation: Associate Professor
 3) Department: Mathematics
 4) Qualifications:

Academic: M.Sc., M.Phil., Ph.D.,

Additional: CSIR-UGC – JRF- NET

5) Experience (in years): Teaching: 15 years 6 months Research: 19 years.

6) Area of Specialization: Graph Theory , Analysis , Algebra

7) Contact: 9003424064

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8) Grants Received (Conference/Workshop/Seminar/any other):

Event Title	Agency	Fund Received	Date
Nil			

9) Project Completed:

Project Title	Agency	Fund Received	Duration
Nil			

10) Project ongoing :

Project Title	Agency	Fund Received	Duration
Nil			

11) Research Guidance:

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.		4
M. Phil.	45	

12) Research Publications:

	International	National
Total Number of Publications	2	10

List of International Publications:

- i). **S.V.Padmavathi** and V.Swaminathan, The l_1 - Convexity number of a graph, International Journal of Mathematics and Soft Computing, Vol.5, No.2(2015), 09-14. (Impact factor : 0.5714)

ii). **S.V.Padmavathi**, The Inverse Convexity Number of a Graph, International Journal of Multidisciplinary Educational Research, Vol. 10, Issue 2 (2021) ,158-162 (Impact factor :6.51)

List of National Publications:

i). **S.V.Padmavathi**, Relation Between Convexity Number and Independence Number of a Graph, Annals of Pure and Applied Mathematics, Vol. 9, No. 1 (2015), 9-12. (Impact factor : 1.0285)

ii). **S.V.Padmavathi**, The Convexity Number of a Signed Graph, Indian Journal of Natural Sciences, Vol. 5, Issue 28 (2015) , 3401-3405. (Impact factor : 1.233)

iii). **S.V.Padmavathi**, The weak (monophonic) convexity number of a graph, JXAT JOURNAL, Vol. 8 Issue 1 , 542-557, January 2021. (Impact factor : 3.7)

iv). **S.V.Padmavathi**, Convexity Number of Neighborhood Highly Irregular Graphs, Journal of Interdisciplinary Cycle Research, Vol. 13, Issue 2 (2021) ,462-467 (Impact factor : 6.2).

v). **S.V.Padmavathi**, Product Convexity and Weak Convexity in Graphs, Journal of Applied Science and Computations, Vol. 8, Issue 2 (2021) ,32-45 (Impact factor : 5.8)

vi). **S.V.Padmavathi**, Weak Convex Domination in Hypercubes, SNC Journal of Academic Research in Humanities and Sciences, Vol. 8, Issue 1 (2021) ,50-53.

vii). **S.V.Padmavathi**, Centrality with respect to weak convex sets in Graphs, Journal of Interdisciplinary Cycle Research, Vol. 13, Issue 2 (2021) ,884-898(Impact factor : 6.2)

viii). **S.V.Padmavathi**, Structural strong domination of Graphs, IOSR Journal of Mathematics, Vol. 17, Issue 1 (2021) ,04-06 .

ix). **S.V.Padmavathi** and J.Sabari Manju, Independent Semitotal Domination In Graphs, Journal of Information and Optimization Sciences.(Accepted)

x). J.Sabari Manju and **S.V.Padmavathi** , Independent Semitotal Domination of some special Graphs, Indian Journal of Natural Sciences Vol. 13, Issue 76 (2023) .

13) Chapters in Books:

i) **S.V.Padmavathi**, The m-Convexity Number of a Graph, Contemporary Research Trends in Mathematics, ISBN: 978-93-94428-82-9, Multi Spectrum Publication, 2023.

14) Other Publications (Proceedings): Nil

15) Books Published: Nil

16) Presentation in Seminar / Conference:

International: Nil

National: Nil

17) Participation in Conference: 7

18) Participation in Seminar: 7

i) 28.05.2020- Recent Research Directions in Distance in Graphs-ANJAC College.

ii) 11.06.2020- Role of IQAC in Maintaining Quality Standars in Higher Education- IQAC, Govt. Arts College for Women,Nilakottai

iii) 17.06.2020- Construction of Mathematical Modeling in Epidemiology- Govt. Arts College for Women,Nilakottai

iv) 25.06.2020- Recent Trends on Domination in Graphs- V.O.Chidambaram College, Thoothukudi

v) 29.06.2020- Advances in Graph Theory- IQAC , Govt. College Daman

vi) 01.07.2020- Webinar on Basic Graph Theory with GRIN- Rajalakshmi Engineering College

vii) 08.07.2020- Graph Colouring Problems- V.O.Chidambaram College, Thoothukudi

19) Participation in Workshop: Nil

20) Participation in Orientation Programme/ Induction Programme/ Short term Courses:

Sl.No.	Name of the Programme	Duration	Organised By
1.	Orientation Programme	05.05.2010 to 01.06.2010	UGC Academic Staff College, Madurai Kamaraj University
2.	Refresher Course in Mathematics	07.11.2013 to 27.11.2013	UGC Academic Staff College, Madurai Kamaraj University

3.	Refresher Course in Mathematics	02.11.2016 to 22.11.2016	UGC Academic Staff College, Madurai Kamaraj University
4.	Refresher Course in Mathematics	21.01.2020 to 03.02.2020	UGC Academic Staff College, Madurai Kamaraj University

21) Participation in Faculty Development Programme: 4

i) 21.12.2018- IQAC- SN College

ii) 17.08.2018- IQAC-SN College

iii) 27.07.2020-IQAC-SN College

iv) 30.07.2020 and 31.07.2020-Recent Trends in Graphs and Networks- MDT Hindu College Tirunelveli

22) Conference/ Seminar/ Workshop Organized: 1

i) National level Webinar on Enhancing the concepts of Sequences- 20.07.2020.

23) Invited Speaker/ Session Chair – Conference/ Seminar/ Workshop: 7

i) One day State Level A. Michaeiraj Endowment Lecture on Innovations in Discrete Mathematics-27.02.2015- Ananda College- Devakottai

ii) Chief Guest on One day State Level Intercollegiate Competitions, delivered a Lecture on Ramanujan Math Magic-12.09.2018- Mangayarkarasi College of Arts and Science for Women.

iii) Guest Lecture on Recent trends in Mathematics- 13.01.2020-Senthamarai College of Arts and Science.

iv) One Day Seminar on Mathematics in Day to Day Life -07.03.2020 –C.S.I. College of Arts and Science for Women

v) Mathematics Association Inauguration- Ramanujan's Math Magic and Graph Theory- 01.11.2021- Madonna Arts and Science College for Women.

vi) Lecture on Career Opportunities for Mathematics Students- 25.03.2022- Senthamarai College of Arts and Science.

vii) Jury in State Level ARTS and SCIENCE EXPO-2022 08.04.2022- E.M.G. Yadava Women's College.

24) Other Co-curricular / Administrative Responsibilities:

i) Executive Member- Internal Quality Assurance Cell (IQAC) – Since December 2019.

25) Member in Board of Studies: 1

i) E.M.G. Yadava Women's College- Subject Expert- Board of Studies-30.05.2023.

26) Editorial/ Review Board Member:Nil

27) Membership in Professional Bodies:Nil

28) Awards received:Nil

29) Consultancy:Nil

30) Patents:

31) Any other information:

* Note : Please provide the total Numbers and details for each metrics