

Dr Tanuja A.

Affiliation (Assistant Professor, Dept of Mathematics, SIT)

Contact: 9019743264

Email: tanujaa@sit.ac.in

Vidwan ID: 91071

Scopus ID: 46462011900

OrCID: 0000-0002-4393-3842

Faculty ID: SIT0777

Education

	Degree	Year	Institute	Specialization
1	PhD	2015	Bangalore University	Complex Analysis
2	MSc	2008	Government Science college, Bengaluru	Mathematics
3	BSc	2006	Maharani's Science College for women, Bengaluru	Physics, Chemistry, Mathematics

Professional Experience

SL No.	Date (from-to)	Designation	Organization
1	22-07-2017 to till date	Assistant Professor	Siddaganga Institute of Technology
2	22-4-2015 to 1-7-2017	P.G. Co-ordinator & Assistant Professor in P.G. Department of Mathematics	K.L.E. S Nijalingappa College
3	1-3-2012 to 1-3-2015	Lecturer in P.G. Department of Mathematics	Acharya Institute of Graduate Studies
4	1-3-2011 to 17-1-2012	Lecturer in P.G. Department of Mathematics	M.E.S. Degree College
5	1-8-2008 to 17-1-2011	Lecturer in Department of Mathematics	S.S.M.R.V. Degree College

(Please fill in reverse order. Current designation should be at the top)

Positions held

(Please give details of any administrative posts, co Ordinator roles/ responsibilities held)

Affiliations of Professional organizations

- Life Member of Indian Mathematical Society from 2009 onwards.
- International Scientific Committee member of Mathematical and Computational Sciences in World Academy of Science, Engineering and Technology.

Awards and Honors

- The Student Award of Excellent Presentation for a paper entitled “Analytic solution of the complex Ginzburg-Landau equation arising in fluid dynamics problems” in International Conference of FIM-IMIPUMSO2021 held at Kitakyushu (City), Japan on December 26th -28th , 2021.
- Best research paper award for a paper entitled “Nevanlinna method of obtaining solution of a system of q-shift complex differential-difference equations” in the conference on “Recent Trends in Mathematics and its Applications (NCRTMA-2019)” held on December 20-21, 2019 at GITAM, Bengaluru.

Courses Taught

Undergraduate Courses

- B.Sc Mathematics
- B. E. Mathematics

Postgraduate Courses

- M.Sc Mathematics

Research Guidance: NIL

Sl. no	Name of the Scholar	Title	Year of completion

Research Areas

- Nevanlinna Theory

Sponsored Projects: NIL

Ongoing Projects:

1. Title:
Funding Agency:
Amount:
Duration:
Role:
2. Title:
Funding Agency:
Amount:
Duration:
Role:

Completed Projects:

1. Title:
Funding Agency:
Amount:
Duration:
Role:
2. Title:
Funding Agency:
Amount:
Duration:
Role:

Publications

Journals

- “Nevanlinna method of obtaining solution of a system of q-shift complex differential-difference equations”, Poincare Journal of Analysis & Applications, Vol. 9, No. 2, (2022), 201-212.
- “Weighted sharing results for meromorphic function concerning q-shift differential-difference polynomials”, International Journal of open Problems in Complex Analysis, Vol. 13, No. 1, (2021), 1-11.
- “Nevanlinna theory for existence of meromorphic solution to StuartLandau equation” Springer - Lecture Notes in Mechanical Engineering (2020), 373-379.

- “Nevanlinna theory for finding meromorphic solutions of cubic-quintic Ginzburg-Landau equation arising in nonlinear dynamics” Springer - Lecture Notes in Mechanical Engineering (2020), 39-46.
- “Meromorphic solution of a class of non-linear differential equations with sharing one value”, Journal of Analysis, Springer, Vol. 28, No. 2, (2020), 415-430.
- “Meromorphic solutions of nonlinear ordinary differential equations”, Tbilisi Journal of Mathematics, Vol. 12, No. 2, (2019), 77-88.
- “Some general q-shift difference equation and their meromorphic solutions”, AIP Conf. Proc. 2095, (2019), 030031-030041.
- “Existence of meromorphic solution of Riccati-Abel differential equation”, Trends in Mathematics book series, Springer Series (2019), 21-28.
- “Generalization of uniqueness and value sharing of differential polynomials”, Southeast Asian Bulletin of Mathematics, Vol. 41, (2017), 577- 588.
- “Weighted sharing and uniqueness of meromorphic functions”, Tamkang Journal of Mathematics, Vol. 45, No. 1 (2014), 1-12.
- “Fixed – Points and Uniqueness of entire and meromorphic functions”, International Electronic Journal of Pure and Applied Mathematics, Vol. 7, No.3 (2014), 99-107.
- “Uniqueness and value-sharing of meromorphic functions”, Kyungpook Mathematical Journal, Vol. 54, (2014), 511-519.
- “Uniqueness of meromorphic functions whose certain differential polynomials have two pseudo common values”, Southeast Asian Bulletin of Mathematics, Vol. 37, (2013), 941-949.
- “Uniqueness of meromorphic functions with their nonlinear differential polynomials share a small function”, Applied Mathematics Journal, Vol. 2, No. 11 (2011), 1364-1368.
- “Uniqueness theorems sharing one value of meromorphic functions”, Proceedings of the Jangjeon Mathematical Society, Vol. 14, No. 3 (2011), 339-353.
- “Value sharing of meromorphic functions”, International Journal of Mathematical Analysis, Vol. 5, No. 27(2011), 1321 – 1333.
- “On meromorphic solutions of a certain type of system of complex differential – difference equations”, International Journal of Scientific & Engineering Research, Vol 8, No.5(2017), 86-91.
- “Uniqueness of difference polynomials of meromorphic functions”, Bulletin of Calcutta Mathematical Society, Vol. 105, No. 3(2013) 227- 236.
- “A uniqueness result related to certain non-linear differential polynomials”, International Journal of Mathematical Archive, Vol. 3, No.6 (2012), 2327-2330.

- “Uniqueness and value-sharing of entire and meromorphic functions”, International Journal of Mathematical Sciences, Vol. 11, No. 3- 4(2012), 319-328.
- “A unicity theorem for meromorphic functions concerning differential polynomials”, International Journal of Mathematical Sciences and Engineering Applications, Vol. 6, No. 1 (2012), 273-279.
- “Nonlinear differential polynomials sharing small function”, South East Asian J. Math. & Math. Sc. Vol.10, No.1 (2011), 105-123.
- “Uniqueness of entire and meromorphic functions with their nonlinear differential polynomials”, Global Journal of Mathematical Science: Theory and Practical, Vol. 3, No. 3 (2011), 209-215.

Conference Proceedings

- “Nevanlinna theory for finding meromorphic solutions of cubic-quintic Ginzburg-Landau equation arising in nonlinear dynamics” Springer - Lecture Notes in Mechanical Engineering (2020), 39-46.
- “Nevanlinna theory for existence of meromorphic solution to StuartLandau equation” Springer - Lecture Notes in Mechanical Engineering (2020), 373-379.
- “Some general q-shift difference equation and their meromorphic solutions”, AIP Conf. Proc. 2095, (2019), 030031-030041.
- “Uniqueness theorems sharing one value of meromorphic functions”, Proceedings of the Jangjeon Mathematical Society, Vol. 14, No. 3 (2011), 339-353.

Book Chapters

- “Existence of meromorphic solution of Riccati-Abel differential equation”, Trends in Mathematics book series, Springer Series (2019), 21-28.

Books

-
-

Editorial

-
-

Reviewer of Journals

-
-

Editor/ Reviewer of Journal

- Computers and Mathematics with Applications, Elsevier Journal.
- British Journal of Mathematics & Computer Science, Science Domain International.
- International Journal of Industrial Mathematics.
- Asian Journal of Mathematics and Computer Research.
- Far East Journal of Mathematical Sciences.
- Advances in Mathematical Sciences and Applications
- Reviewer for zbMATH with ID 18301.

Patents NIL

-
-

Invited Lectures, talks and workshops

- Title of talk “Complex Differential Equations” in International conference on new trends in differential equations and applied mathematics on 13th April 2021 organized by Sri Vidya Mandir Arts & Science College, Krishnagiri, Tamil Nadu.