Dr. K. DHANALAKSHMI

Dean of Academic Affairs

Associate Professor & Head

Theivanai Ammal College for Women (Autonomous)

Villupuram

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ACADEMICS:

COURSE	INSITITUTE	UNIVERSITY	YEAR OF COMPLETION	PERCENTAGE
Ph.D (Geometric Function Theory)	University College of Engineering, Villupuram.	Anna University	2018	NA
M.Phil., (Mathematics)	Annamalai University-DDE, Chidambaram	Annamalai University	2009	62
M.sc., (Mathematics)	Viveganandha College of Arts and Science for Women, Thiruchencode	Periyar University	2005	75
B.Sc., (Mathematics)	Dhanalakshmi Srinivasan College of Arts and Science, Perambalur	Bharadhidasan University	2003	74

EXPERIENCE:

DESIGNATION	COLLEGE	EXPERIENCE
Dean of Academic Affairs	TheivanaiAmmal College for Women (Autonomous), Villupuram	May 2022 to till date
Associate Professor	TheivanaiAmmal College for Women (Autonomous), Villupuram	August 2022 to till date
Assistant Professor	TheivanaiAmmal College for Women (Autonomous), Villupuram	July 2019 to August 2022
Visiting Faculty	University College of Engineering, Villupuram	August – 2018 to June 2019
Senior Assistant Professor	IFET College Of Engineering, Villupuram	March- 2013 to May-2016 (3 Years 3 Months)
Assistant Professor	IFET College Of Engineering, Villupuram	June-2009 toFebruary-2013 (3 Years 8 Months)
Lecturer	Srinivasan Engineering College,Perambalur	September-2006 to May-2009 (2 Years and 8 Months)

SUBJECTS TAUGHT

Engineering Mathematics - I, Engineering Mathematics – II, Transform and Partial Differential Equations, Probability and Random Processes, Numerical Methods, Ordinary Differential Equations, Stochastic Processes, Real Analysis, Complex Analysis.

PAPERS PRESENTED:

- **"Initial Maclaurin Co-Efficients and Fekete SzegoEstimation for Bi Univalent Function of Order λ"** in International Conference on Analysis and Number Theory – 2022 organized by Ayya Nadar Janaki Ammal College,Madurai.

- **"Fekete-Szego¨ inequality for certain classes of analytic functions associated with Srivastava-Attiya integral operator"** in ICMAA-2014 at University College of Engineering, Villupuram.

- **"On third order Hankel determinant for some special class of analytic functions related with generalized Sakaguchi functions"** in ICMAA-2016 at IIT, Roorkee.

- **"Coefficient estimates for a class of spirallike function in the space of sigmoid function"** in NCETMS at S.A Engineering College, Chennai.

- **"Certain aspects of the harmonic functions with respect to symmetric points"** in ICCCE-2016 at University College of Engineering, Villupuram.

- **"Inclusion relations for Orthogonal polynomial characterized by Conical Domains"** in NCMSFP-2017 at University College of Engineering, Villupuram.

- **"Certain subclasses of bi-univalent functions involving q-derivative Operator"** in ICCIEEE-2018 at Idhaya Engineering College for Women, Chinnasalem.

BOOK PUBLISHED:

- Published a book " **Problems and Solutions in Numerical Methods**" .

PAPERS PUBLISHED:

Papers in Scopus Indexed journals

1. **Dhanalakshmi K**, Kavitha D and A.Anbukkarasi Coefficient Estimates for Bi-Univalent Functions in Connection with (P,Q) Chebyshev Polynomial, Journal of Mathematical and Computational Science, 2021, No.6, 8422-8429.

2. **Dhanalakshmi K** and Kavitha D, Certain Subclasses Of Bi-Univalent Functions Associated With Horadam Polynomials, International Journal of Applied Mathematics, vol 34, 2021, 77-90.

3. Kavitha D**, Dhanalakshmi K** andArulMozhi N, Fekete szegö properties for the class of mocanu functions associated with q−ruscheweyh operator, Journal of Mathematical and Computational Science, 2021, 11(1), pp. 603–613

4. Kavitha Dand**Dhanalakshmi K,** Coefficient Estimates For Certain Subclasses Of Analytic Functions Associated With Horadam Polynomial, Advances in Mathematics: Scientific Journal, vol 9, 2020, 1-9.

5. **Dhanalakshmi K** and Kavitha D , Subclasses of Analytic Functions with Respect to Symmetric and Conjugate Points Bounded by Conical Domain, Advances in Mathematics: Scientific Journal, vol 9, 2020,394-404.

6. **Dhanalakshmi K** and Kavitha D, Fekete-Szegö inequality for a subclass involving the generalized K Mittag-Leffler functions, Vol 83, TEST Engineering and Management, March/April 2020.

7. Ramachandran C, **Dhanalakshmi K** and Vanitha L, Certain Aspects of Univalent Function with Negative Coefficients Definedby Bessel Function, Brazilian Archives Of Biology And Technology, vol 59, 2016, pp 1-14.

8. Ramachandran C, **Dhanalakshmi K** and Vanitha L, Fekete-Szegö Inequality for Certain Classes of Analytic Functions Associated with Srivastava-Attiya Integral Operator, Applied Mathematical Sciences, vol 9, 2015, no 68, pp 3357 – 3369.

Papers in International Journals

1. **Dhanalakshmi K**, KavithaD andAnitha K, Toeplitz Determinant For Error Starlike & Error Convex Function, Mathematics and Statistics Vol. 11(2), pp. 345 – 352, 2023

2. **Dhanalakshmi K**,KavithaDandP Manikandan, A new subclass of bi-univalent functions associated with q-Chebyshev Polynomial, Int. J. Nonlinear Anal. Appl.1-8,2022.

3. **Dhanalakshmi K**andKavitha DStudies on Coefficient Estimates andFekete-Szegö Problem for a Class of Bi-UnivalentFunctions Associated With (p,q)-ChebyshevPolynomial, Communications in Mathematics and Applications, Vol. 12, No. 3, 691–697, 2021.

4. R. Keerthika, K. Pavithra, S. Pooja, K. Priya, **Dhanalakshmi K**, Analysis in Algorithms of Spanning Tree to Reduce the Distance Between the Cable, Vidyabharati International Interdisciplinary Research Journal (Special Issue), Oct – 2021.

5. Gayathri. D and **Dhanalakshmi K**,Coefficient Inequalities of q-starlike and q-convexFunctions Defined by -Derivative, Journal of Xidian University, vol 14, Issue 5,2020,1796-1800.

6. **Dhanalakshmi K** and Kavitha D,Certain Coefficient Estimates for a New Class of Analytic Function Involving q- Derivative Operator,Journal of Xi'an University of Architecture & Technology Vol XII,Issue IV,2020, 2407-2410.

7. **Dhanalakshmi K** and Kavitha D, Certainbounds for a subclass of analytic functions of reciprocal order α,Journal of Xidian University, vol 4 ,2020, 123-130.

8. **Dhanalakshmi K** and Kavitha D, Certain aspects of the harmonic functions with respect to symmetric points, Science, Technology and Development Multidisciplinary Journal, Special Issue, 2020, 1-6.

9. Gomathy.D and **Dhanalakshmi K,**The Fekete-SzegoInequality for Certain Analytic Functions of Starlike Function of Order α/2, Science, Technology and Development Multidisciplinary Journal, vol IX, 2020, 391-395.

10. Gayathri .D and **Dhanalakshmi K,**The Fekete-SzegoInquality for Certain Analytic Functions of Convex Function of Order α/2, Science, Technology and Development Multidisciplinary Journal, vol IX, 2020, 167-170.

11. Ramachandran C, Vanitha. L, **Dhanalakshmi K**, On third order Hankel Determinant for some special class of analytic functions relatedwith generalized sakaguchi functions,International journal of Mathematical and its Applications, 6(4), 2018, 163-173.

12. Ramachandran C, **Dhanalakshmi K**, The Fekete-Szegö Problem for a Subclass of Analytic Functions related to Sigmoid Function, International Journal of Pure and Applied Mathematics, vol 113, 2017.

13. Ramachandran C, **Dhanalakshmi K**, Coefficient Estimates for a Class of Spirallike Function in the space of Sigmoid Function, Global Journal of Pure and Applied Mathematics, vol 13, 2017, no1, pp 13-19.

14. Ramachandran C, **Dhanalakshmi K,** and Vanitha L, HankelDeterminant for a subclass of Analytic Functions Associated with Error Functions bounded by Conical regions, International Journal of Mathematical Analysis, vol 11, 2017, no 12, pp 571 – 581.

15. Ramachandran C, **Dhanalakshmi K**, Fekete-Szeg̈o inequality for subclasses of analytic functions bounded by Chebyshevpolynomial, Global Journal of Pure and Applied Mathematics, vol 13, 2017, no 9, pp 4953-4958.

16. Ramachandran C, **Dhanalakshmi K**, An approach of Generalized Meixner-Pollaczek polynomials for analytic functions bounded by Conical domains, International Journal of Pure and Applied Mathematics, vol 116, 2017, no 4, pp 949-958.

Papers in National Journals

1. **K.Dhanalakshmi**and A.Hajira Banu, Fekete-Szego, Inequality for Analytic Functions Using a Starlike Functions Associated with Sine Function, Journal of the Maharaja Sayajirao University of Baroda, Vol(55), no 1, 2020-2021.

2. K.Dhanalakshmiand S.Senthamizh Meera , Fekete-Szegoinequality for Certain Classes of analytic functions Subordinate to Exponential Function, Journal of the Maharaja Sayajirao University of Baroda, Vol(55), no 1, 2020- 2021.

3. **K.Dhanalakshmi**and B.MistikaFlami, To Determine the Shortest Path from the Google Map using Graph Theory, Journal of the Maharaja Sayajirao University of Baroda, Vol(55), no 1, 2020- 2021.

4. **K.Dhanalakshmi**and M.Mounika, Fekete-Szegö problem for certain class of analytic functions subordinate to chebyshev polynomials, Journal of the Maharaja Sayajirao University of Baroda, Vol(55), no 1, 2020- 2021.

5. **K.Dhanalakshmi**and V.Rajapriya, Fekete-Szego Inequality for a Subclass ofAnalyticFunctions Associated with Exponential Function, Journal of the Maharaja Sayajirao University of Baroda, Vol(55), no 1, 2020- 2021.

6. **K.Dhanalakshmi**and V.Subasri, Initial bounds for Certain classes of Univalent Functions bounded by Chebyshev Polynomials, Journal of the Maharaja Sayajirao University of Baroda, Vol(55), no 1, 2020- 2021.

WEBINARS

- Participated in International **Webinar** on **"Plagiarism - Importance, Consequence and How toavoid"**Organized by Theivanai Ammal College for Women (Autonomous) on 08.03.2023.

- Participated in the **Webinar** on"**Nonuniformly elliptic problems**" Organized by Springer Nature Group, Germany, 19th March, 2021.

- Participated in the **Webinar** on **"Mathematical Modeling Using Maple"** Conducted by Coimbatore Institute of Technology, Coimbatore, 27th November, 2020.

- Participated in the **Webinar** on **"National Education Policy-2020"**Conducted by Janta College, Bakewar, Etawah (U.P.), 20th November, 2020.

- Participated in **Webinar** on **"Numerical Solution Navier Stokes equation in Two-Dimensional flow in Square Cavity"** Conducted by Theivanai Ammal College for Women (Autonomous), Villupuram, 21st August, 2020.

- Participated in the **Webinar** on **"Teaching and Learning College Level Mathematics With ICT Tools"** Conducted by Sri Malolan College of Arts And Science, Madurandakam, 28th July, 2020.

- Participated in the **Webinar on "Monte Carlo Simultaneous with Microsoft Excel and Solver"** Conducted by Keshav Memorial Institute of Commerce and Science, Hyderabad, 22nd July, 2020.

- Participated in the **Webinar** on **"Mathematical Models in Applied Sciences"** Conducted by PSG College of Technology, Coimbatore, 21st July 2020.

- Participated in the **Webinar on "Recent Trends in Mathematics"** Conducted by Govt.Arts. College, Udhagamandalam, 10th & 11th July, 2020.

- Participated in the **Webinar** on **"AI and the New Normal in the World"** Conducted by Sri AIMs School of Business, Bangalore, 26th June, 2020.

- Participated in the **Webinar on "New Extorial Function & Its Application in Fractional Calculus"** Conducted by Govt. Arts College for Women, Salem, 24th June, 2020.

- Participated in the **Webinar on "New Skills to Adopt during Digital Era"** Conducted by Audi Sankara College of Engineering and Technology, Gudur, Andhra Pradesh, 19th June, 2020.

- Participated in the **Webinar on "Emerging Trends in Graph Theory"** Conducted by Sacred Heart College (Autonomous), Tirupattur, 14th to 16th June, 2020.

- Participated in the **Webinar on "Innovation Process and Challenges of Fuzz Modelling"** Conducted by KunthavaiNaachiyaar Government Arts College for Women (Autonomous), Kumbakonam, 4th June, 2020.

- Participated in the **Webinar on "Challenges of Higher Education: E-Learning during COVID - 19"** Conducted by National college, Thiruchirappali, 23rd May, 2020.

EDITORIAL MEMBER & REVIEWER

Editorial Member in Pure and Applied Mathematics Journal
and
Active Reviewer in,
1. International Journal of Engineering Research & Technology
2. Shanlax International Journals
3. Advances in Science, Technology and Engineering Systems Journal
4. International Journal of Scientific Development and Research
5. Science Frontier Research Journal

LIFETIME MEMBERSHIP:

- Indian Mathematical Society.
- Indian Society for Technical Education.

WORKSHOP AND SYMPOSIUM:

- Attended 7 days program on "Transforms and Partial Differential Equation" conducted by University College of Engineering, Villupuram.

- Attended7 days program on "National Workshop on Computational Mathematics" conducted by Anna University, Chennai.

- Attendedone day Workshop on "Research Methodology" conducted by Anna University, Chennai.

- Attended one day"MATLAB workshop for Engineering Applications" conducted by VIT, Chennai.

- Attendedone day Workshop on "Preparation of Technical Articles &Research Proposals" conducted by University College of Engineering, Villupuram.

- Attendedone day Symposium on "Geometric Function Theory" conducted byIndian Statistical Institute.

- Attended one day Symposium on "Geometric Function Theory and Special Functions" conducted by Indian Statistical Institute.

CHAIRED SESSIONS

- Acted as **Resource person** in Two Days Workshop on **"Research Methodology and Technical Writing using LaTeX"** on 23.03.2023 & 24.03.2023 by Nadar Saraswathi College of Arts & Science, Theni.

- Acted as **Resource person**in National level webinar on 'World of PI' conducted on the occasion of 'PI DAY'on 14.03. 2023 by **SST College of Arts and Commerce, Mumbai.**

- Acted as **Resource person** in **Shree Raghavendra Arts and Science College** forState level Workshop on Latex on 19.05.2022

- Acted as **Resource person** for the Webinar Predatory/Fake Journal Identification (An Overview) Organized by **RAAK College of Engineering & Technology** on 28.06.2021.

AWARDS AND ACHIEVEMENTS:

- Completed **LaTeX Training**is offered by the Spoken Tutorial Project, IIT Bombay,funded by National Mission on Education through ICT, MHRD, Govt., of India.

- Organized National Commission for Women, New Delhi Sponsored webinar on "Capacity Building and Personality Development Programme" on 08.11.2021.

- Acted as a reviewer for ICCCEG 2021 (Virtual Mode) held at the University of Greenwich, London, United Kingdom.

- Acted as an Executive Member for the 2nd Universal Conference on "Multidisciplinary Research & Innovation" and PERFICIO Awards-2021 Organized by DHS Foundation, New Delhi.

- Delivered a Lecture in Faculty Development Training Program on "MA6453 – Probability and Queueing Theory" conducted by IFET College of Engineering, Villupuram.

- Awarded for producing above 95% result in Mathematics-I, Mathematics-II, and Numerical Methods in Anna University Exams.

- Awarded for producing 100% result in Applied Mathematics for Electronic Engineersand Mathematics-II in Anna University Exams.

QUALITY IMPROVEMENT PROGRAMME:

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- Attended Faculty Development Program on "Effective Teaching Methodology" held at IFET College of Engineering, Villupuram.

- Participated in the "Effective Teaching Using PPT" programconducted by IFET College of Engineering, Villupuram.

- Participated in a Faculty development program on "Preparation of Proposals for Research Projects" held at IFET College of Engineering, Villupuram.

- Participated in a Staff development program on "Kindling the Teacher in You" held at IFET College of Engineering, Villupuram.