

Dr.S.PARTHIBAN

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Qualification

Degree	Branch	Institution / University	Year of Passing
Doctor of Philosophy	Mathematics	Bharathidasan	2020
M.Phil.	Mathematics	Bharathidasan	2014
M.Sc.	Mathematics	Bharathidasan	2013
B.Sc.	Mathematics	Bharathidasan	2010

Ph.D. Details

Title of Thesis		Area of Specialization
Numerical Methods for Linear Parabolic Singularly Perturbed DDEs of Reaction Diffusion Type		Numerical Analysis of Singular Perturbation Problems
Research Supervisor	Research Centre	Year of Award
Dr.V.Franklin	PG & Research Department of Mathematics, Bishop Heber College, Tiruchirappalli - 17	June 2020

Work Experience

Name of Institution	Address of Institution	Designation	From	To
Bishop Heber College	Puthur,Vayaloor Road Tiruchirappalli - 620017	Assistant Professor	24.11.2014	till date

Teaching / Research Experience

U.G. : 6 Y 10 M **P.G. :** 5 Y 10 M **M.Phil.** 3 Y **Ph.D.**

Research Guidance

U.G. : 8 **P.G. :** 23 **M.Phil. :** **Ph.D. :**

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5.	Books Published / Edited	1
6.	Conferences / Workshops / Seminars Organised	0
7.	Research Projects	0
8.	Resource Person	4
9.	Consultancy	0
10.	Awards Recieved	0
11.	Patent	0
12.	Extension Activities Undertaken	0
13.	Professional Membership	0
14.	M.Phil. / Ph.D. Produced	0 / 0

1. International level Conference on **"Heber International Conference on Applied Mathematics - HICAM 2021"** sponsored by Management, Bishop Heber College organized by PG & Research Department of Mathematics at Bishop Heber College, Tiruchirappalli during 26/04/2021 to 26/04/2021.
2. International level Conference on **"Virtual Heber International Conference on Applied Mathematics - V HICAM 2020"** sponsored by Management, Bishop Heber College organized by PG & Research Department of Mathematics at Bishop Heber College, Tiruchirappalli during 07/11/2020 to 07/11/2020.
3. College level Workshop on **"E-content development"** sponsored by Management, Bishop Heber College organized by Deanery of Academics at Bishop Heber College, Tiruchirappalli during 27/10/2020 to 02/11/2020.
4. College level Seminar on **"Webinar on Unlocking online evaluation"** sponsored by Management, Bishop Heber College organized by IQAC at Bishop Heber College, Tiruchirappalli during 22/05/2020 to 22/05/2020.
5. College level Seminar on **"Webinar on Online Teaching : The new norm"** sponsored by Management, Bishop Heber College organized by IQAC at Bishop Heber College, Tiruchirappalli during 21/05/2020 to 01/01/1900.
6. International level Conference on **"International Conference on Applications of Basic Sciences"** sponsored by Management, Bishop Heber College organized by The Department of Basic Sciences, Bishop Heber College at Tiruchirappalli during 19/11/2019 to 21/11/2019.
7. College level Seminar on **"Numerical Analysis"** sponsored by UGC through College of Excellence organized by Department of Mathematics at Bishop Heber College, Trichy during 20/02/2019 to 20/02/2019.
8. College level Workshop on **"Quality Teaching"** sponsored by UGC through College of Excellence organized by Department of Mathematics at Bishop Heber College, Trichy during 28/01/2019 to 01/01/1900.
9. College level Workshop on **"Emotional Intelligence for Teachers"** sponsored by UGC through College of Excellence organized by Department of Mathematics at Bishop Heber College, Trichy during 25/01/2019 to 01/01/1900.
10. International level Conference on **"Applied Mathematics and Bio-inspired Computations"** sponsored by CSIR, Govt. of India organized by Department of Mathematics at Bishop Heber College, Trichy during 10/01/2019 to 11/01/2019.
11. College level Seminar on **"Multigrid techniques – Introduction and Applications to Non-linear Differential Equations"** sponsored by DBT, Govt. of India organized by Department of Mathematics at Bishop Heber College, Trichy during 19/09/2018 to 19/09/2018.
12. National level Conference on **"Recent Trends in Applied Mathematics"** sponsored by Management, Bishop Heber College organized by Department of Mathematics at Bishop Heber College, Trichy during 02/03/2018 to 03/03/2018.
13. College level Workshop on **"Real and Complex Analysis"** sponsored by DBT, Govt. of India organized by Department of Mathematics at Bishop Heber College, Trichy during 21/09/2017 to 01/01/1900.
14. College level Workshop on **"Computational Fluid Dynamics"** sponsored by DBT, Govt. of India organized by Department of Mathematics at Bishop Heber College, Trichy during 13/07/2017 to 01/01/1900.
15. College level Workshop on **"Advanced Mathematics"** sponsored by DBT, Govt. of India organized by Department of Mathematics at Bishop Heber College, Trichy during 07/03/2017 to 01/01/1900.
16. National level Conference on **"Heber Conference on Computational Techniques"** sponsored by Management, Bishop Heber College organized by Department of Mathematics at Bishop Heber College during 02/03/2017 to 03/03/2017.

17. State level Workshop on **"Linear and Algebra and Analysis"** sponsored by UGC and the Management of Ayya Nadar Janaki Ammal College organized by PG & Research Department of Mathematics, Ayya Nadar Janaki Ammal College at Sivakasi - 626 124 during 15/12/2016 to 15/12/2016.
18. College level Workshop on **"Two Day Workshop on Curriculum Design and Evaluation Techniques"** sponsored by Department of Biotechnology, India and Management of Bishop Heber College organized by IQAC, PG & Research Department of Mathematics, Bishop Heber College at Puthur, Tiruchirappalli - 620017 during 21/11/2016 to 22/11/2016.
19. College level Workshop on **"Workshop on R Programming"** sponsored by Management of Bishop Heber College organized by IQAC, PG & Research Department of Mathematics, Bishop Heber College at Puthur, Tiruchirappalli - 620017 during 02/04/2016 to 02/04/2016.
20. National level Conference on **"National Conference on Applied Mathematics and Computer Simulation - Recent Trends (NACAMACS- RT - 2015)"** sponsored by UGC, NBHM organized by PG & Research Department of Mathematics, Tranquebar Bishop Manikam Lutheran College (TELC) at Porayar, Nagapattinam - 609 307 during 07/10/2015 to 08/10/2015.
21. National level Workshop on **"Two Day National Workshop on R Programming"** sponsored by UGC Autonomous Grant organized by PG & Research Department of Mathematics, Nehru Memorial College at Puthanampatti, Tiruchirappalli - 621 007 during 25/09/2015 to 26/09/2015.
22. College level Orientation on **"Capacity Building Programme"** sponsored by Management of Bishop Heber College organized by IQAC, Bishop Heber College at Puthur, Tiruchirappalli - 620017 during 06/08/2015 to 06/08/2015.
23. International level Conference on **"International Winter Workshop on Differential Equations and Numerical Analysis - DEANA 2015"** sponsored by UGC, NBHM and Bishop Heber College organized by PG&Research Department of Mathematics, Bishop Heber College at Bishop Heber College, Puthur, Trichy during 05/01/2015 to 07/01/2015.
24. Regional level Workshop on **"Two Day Workshop on LaTeX"** sponsored by Management of Nehru Memorial College organized by ABEL Interdisciplinary Research Cell, PG & Research Department of Mathematics, Nehru Memorial College at Puthanampatti, Tiruchirappalli - 621 007 during 11/11/2013 to 12/11/2013.
25. International level Conference on **"Heber International Conference on Applications of Mathematics and Statistics"** sponsored by Management of Bishop Heber College organized by PG & Research Department of Mathematics, Bishop Heber College at Puthur, Tiruchirappalli - 620017 during 05/01/2012 to 07/01/2012.



1. **"Numerical method for a boundary value problem for a linear system of singularly perturbed parabolic delay differential equations of reaction-diffusion type with discontinuous source terms"** in the International conference on *International Conference on Applications of Basic Sciences* sponsored by UGC,India & Management, Bishop Heber College, organized by Departments of Basic Sciences, Bishop Heber College at Bishop Heber College, Puthur, Tiruchirappalli - 620017, Tamil Nadu, India during 19/11/2019 to 21/11/2019.
2. **"A numerical method to solve singularly perturbed linear parabolic second order delay differential equation of reaction-diffusion type"** in the National conference on *National Conference on Applied Mathematics and Computer Simulation - Recent Trends - 2015 (NACAMACS - RT - 2015)* sponsored by UGC,NBHM, organized by PG & Research Department of Mathematics, Tranquebar Bishop Manikam Lutheran College (TELC) at Porayar, Nagapattinam - 609 301 during 07/10/2015 to 08/10/2015.
3. **"Crank -Nicolson scheme for solving a system of singularly perturbed partial differential equations of parabolic type"** in the National conference on *National Conference on Applied Mathematics and Computer Simulation - Recent Trends - 2015 (NACAMACS - RT - 2015)* sponsored by UGC,NBHM, organized by PG & Research Department of Mathematics, Tranquebar Bishop Manikam Lutheran College (TELC) at Porayar, Nagapattinam - 609 301 during 07/10/2015 to 08/10/2015.

Publication in Journals

- 4

1. **"Numerical method for a boundary value problem for a linear singularly perturbed parabolic delay differential equation of reaction-diffusion type with discontinuous source term"** published in IOP Journal of Physics (PEER REVIEW) Vol. 1850, Issue No. , July 2021 ISSN : 1742-6596.
2. **"Parameter uniform numerical method for a singularly perturbed boundary value problem for a linear system of parabolic second order delay differential equation"** published in Malaya Journal of Matematik (PEER REVIEW) Vol. 7, Issue No. 2, March 2019 ISSN : 2321-5666.
3. **"Crank -Nicolson scheme for solving a system of singularly perturbed partial differential equations of parabolic type"** published in Malaya Journal of Matematik (PEER REVIEW) Vol. , Issue No. , October 2015 ISSN : 2319-3786.
4. **"A numerical method to solve singularly perturbed linear parabolic second order delay differential equation of reaction-diffusion type"** published in Malaya Journal of Matematik (PEER REVIEW) Vol. , Issue No. , October 2015 ISSN : 2319-3786.

1. **Numerical Analysis of a Finite Difference Method for a Linear System of Singularly Perturbed Parabolic Delay Differential Reaction-Diffusion Equations with Discontinuous Source Terms.** *Differential Equations and Applications*. Singapore :Springer, January 2022.
2. **Numerical Method for a Boundary Value Problem for a Linear System of Partially Singularly Perturbed Parabolic Delay Differential Equations of Reaction-Diffusion Type.** *Differential Equations and Applications*. Singapore :Springer, January 2022.
3. **Numerical method for a singularly perturbed boundary value problem for a linear parabolic second order delay differential equation.** *Differential Equations and Numerical Analysis - Springer Proceedings in Mathematics & Statistics*. India :Springer, September 2016.

Books Published / Edited

- 1

- * Valarmathi Sigamani . **Differential Equations and Applications**. Singapore : Springer , January 2022.

TRAINING PROGRAMME

- 10

- # NATIONAL level Short Term Course on **"ICT Tools for Interactive Teaching and Blended Learning"** Sponsored by Management, Bishop Heber College, Organized by Deanery of Academics at Bishop Heber College, Tiruchirappalli during 12/07/2021 - 19/07/2021.
- # NATIONAL level Faculty Development Programme on **"Introduction to Python Programming (Online Live FDP)"** Sponsored by , Organized by ICT Academy at Chennai during 29/03/2021 - 03/04/2021.
- # REGIONAL level Faculty Development Programme on **"Train the Trainers"** Sponsored by Management, Bishop Heber College and AIACHE, New Delhi, Organized by Deanery of Academics at Bishop Heber College, Tiruchirappalli during 05/03/2021 - 06/03/2021.
- # COLLEGE level Faculty Development Programme on **"Mathematics in Machine Learning"** Sponsored by Management, Bishop Heber College, Organized by PG & Research Department of Mathematics at Bishop Heber College, Trichy during 19/03/2020 - 20/03/2020.
- # COLLEGE level Management Development Programme on **"Laddership"** Sponsored by , Organized by Department of Management Studies at Bishop Heber College, Trichy during 19/02/2020 - 01/01/1900.
- # COLLEGE level on **"Faculty Enrichment Programme – NET coaching"** Sponsored by , Organized by IQAC at Bishop Heber College, Trichy during 22/11/2018 - 23/11/2018.
- # COLLEGE level SELECT on **"Linear Algebra"** Sponsored by DBT, Govt. of India, Organized by Department of Mathematics at Bishop Heber College, Trichy during 17/09/2018 - 19/09/2018.
- # COLLEGE level on **"Algebra"** Sponsored by DBT, Govt. of India, Organized by Department of Mathematics at Bishop Heber College, Trichy during 19/07/2018 - 21/07/2018.
- # COLLEGE level on **"Scientific Computing through Python"** Sponsored by DBT, Govt. of India, Organized by Department of Mathematics at Bishop Heber College, Trichy during 08/08/2017 - 08/08/2017.
- # STATE level on **"Outreach Programme in Mathematics"** Sponsored by , Organized by Management and Ramanujan Mathematical Society at National College, Tiruchirappalli - 620001 during 20/05/2015 - 27/05/2015.

1. International level Chair Person on **"Heber International Conference on Applied Mathematics - HICAM 2021"** at Bishop Heber College, Tiruchirappalli, 26/04/2021.
2. International level Chair Person on **"Virtual Heber International Conference on Applied Mathematics - V HICAM 2020"** at Bishop Heber College, Tiruchirappalli, 07/11/2020.
3. College level Workshop on **"A Scientific Programming Language - OCTAVE"** at KONGU ARTS AND SCIENCE COLLEGE, ERODE - 638 107, 17/12/2018.
4. College level Workshop on **"Documentation using LaTeX"** at Kongu Arts and Science College, Erode, 26/09/2017.



Signature of Staff
(S.PARTHIBAN)