

**Name** : Dr. V. Divya  
**Designation** : Assistant Professor  
**Department** : Mathematics  
**Qualification** : M.Sc., M. Phil., Ph.D., SET  
**Experience** : Teaching : 2 years 10 months                      Research: 5 years  
**Area of Specialization(s)** : Computational Fluid Dynamics  
**Email (Official ID)** : divyav@drngpasc.ac.in



### Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D	Mathematics	Bharathiar University	2018
M.Phil	Mathematics	Bharathiar University	2013
M.Sc	Mathematics	Kongunadu College of Arts and Science	2012
B.Sc	Mathematics	Vellalar College for Women	2010

### Additional Qualifications

Diploma / Certification	Area of Specialization	Institution / University	Year
SET	Mathematical Sciences	UGC	2016
NPTEL -Online Certificate	Numerical Methods	IIT Roorkee	2019
NPTEL -Online Certificate	Descriptive Statistics using R Software	IIT Kanpur	2021
Udemy- Online Certificate	Introduction to R Programming	-	2021

### Research Publications (Indexed)

#### International

- A. Purusothaman, N. Nithyadevi, H.F. Oztop, V. Divya, Khaled-Al-Salem, **Three dimensional numerical analysis of natural convection cooling with an array of discrete heaters embedded in nanofluid filled enclosure**, Advanced Powder Technology, Vol. 27, No. 1,

pp. 268-280, January 2016, ISSN: 0921-8831, DOI: 10.1016/j.ap.2015.12.012, (Indexed in SCIE).

- A.Purusothaman, V.Divya, N.Nithyadevi, H.F.Oztop, **An analysis on Free Convection Cooling of a 3×3 Heater Array in Rectangular Enclosure using Cu-EG-Water Nanofluid**, Journal of Applied Fluid Mechanics, Vol. 9, No. 6, pp. 3147-3157, 2016, ISSN: 1735-3572, (Indexed in SCIE).
- N.Nithyadevi, V.Divya, M.Rajarathinam, **Effect of Prandtl Number on Natural Convection in a Rectangular Enclosure with Discrete Heaters**, Journal of Applied Science and Engineering, Vol.20, No.2, pp.173-182, 2017, ISSN: 1560-6686, DOI: 10.6180/jase.2017.20.2.05, (Indexed in SCOPUS).

#### Presentations in Conference

- **Natural convection in a Nanofluid filled square cavity with the presence of partially active heaters and coolers**, International Virtual Conference on Emerging Trends in Applications of Mathematics, KG College of Arts and Science, Coimbatore, 16-17-Sep-2021.
- **Analysis on MHD natural convection of discrete source-sink pairs in nanofluid filled square cavity**, 61<sup>st</sup> Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM), VIT University, Vellore, 11-14-Dec-2016.
- **Natural convection in a rectangular enclosure with discrete heaters: Effect of internal heat generation**, 60<sup>th</sup> Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM), MNIT, Jaipur, India, 16-19-Dec-2015.
- **Buoyancy driven natural convection in a rectangular enclosure with the presence of discrete heat sources: Effect of Prandtl number**, Recent Trends in Theory and Applications of Partial Differential Equations, Bharathiar University, Coimbatore, 26-27-Mar-2015.
- **Natural convection in a differentially heated square cavity with internal heat generation: Effect of magnetic field**, Partial Differential Equations and Applications, Bharathiar University, Coimbatore, India, 30-31-Jan-2014.

- **MHD natural convection in a differentially heated square cavity with internal heat generation**, Recent Advances in Numerical Methods and its Applications (RANMA), Pondicherry University, Pondicherry, 27-28-Jan-2014.

### Participation in Conferences

- Third National Conference on Control and Inverse Problems (Online), Central University of Kerala, Central University of Tamilnadu and Periyar University, 25-26-Feb-2022.

### Conference / Seminar / Workshop Organized

#### National

- National Conference on Recent Trends in Basic and Applied Sciences, Dr. N.G.P. Arts and Science College, Coimbatore, 2-3-Mar-2020.
- Emerging Trends in Mathematics with Computer Applications, Dr. N.G.P. Arts and Science College, Coimbatore, 12-13-Sep-2019.

### Participation in Seminars

- Short term course on Multi-Scale Computational Fluid Dynamics: Fundamentals and Applications, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab, India, 21-25-Sep-2020.
- International Webinar on Dynamical Systems and its Applications, Bharathiar University, Coimbatore, 17-21-Aug-2020.
- One Day Seminar on Applications of Differential Equations, Department of Mathematics, Coimbatore Institute of Technology, Coimbatore, 12-Mar-2020.
- National Seminar on Probability Theory and Linear Algebra in Artificial Intelligence, Department of Mathematics, Coimbatore Institute of Technology, Coimbatore, 8-Nov-2019.

### Participation in Workshops

- Two Day Online Workshop on An insight into Mathematical Modelling in Information and Communication Engineering – Version 2, Sri Sivasubramaniya Nadar College of Engineering, Chennai, 27-28-Jan-2022.

### Participation in Faculty Development Programme

- Online FDP on Research Methodology and Pedagogy for Tertiary Education, Dr. N.G.P. Arts and Science College, Coimbatore, 15-21-June-2021.
- NPTEL-AICTE FDP, Descriptive Statistics using R Software, IIT Kanpur, Feb-Apr-2021.
- Online Faculty Development Program on Fuzzy Sets and Systems, Patrician College of Arts and Science, Chennai, 16-May-2020.
- NAAC Revised Accreditation Framework and OBE Assessment Methodology, Dr. N.G.P. Arts and Science College, Coimbatore, 27-May-2019 to 2-Jun-2019.
- Recent Advances in Mathematics, Department of Mathematics, Dr. N.G.P. Arts and Science College, Coimbatore, 2-3-Mar-2019.

### Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Indian Society of Industrial and Applied Mathematics	Life Member	April 2016- Till Date