

Name : J. Wilfred Samuel Raj
Designation : Assistant Professor
Department : Mathematics
Date of Joining : 22.07.2018
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Educational Qualification:

Degree	Subject	College/ University & Place	Year Completed
B.Sc.	Mathematics	PSG College of Arts and Science, Coimbatore	2006
M.Sc.	Mathematics	Government College of Arts and Science, Coimbatore	2008
Ph.D.	Applied Mathematics	Bharathiar University	2014

Specialisation in Teaching: Calculus, Differential Equations, Numerical Methods, Programming in C, Object Oriented Programming

Specialisation in Research: Fluid Dynamics

Research Interests: Magnetohydrodynamics, Heat and mass transfer

Other Work Experience:

Designation	Institution/Company	Year - From (month/year) To (month/year)
Lecturer	GRD College of Arts and Science, Coimbatore	June 2008-October 2008
Assistant Professor	Sri Shakthi Institute of Engineering and Technology, Coimbatore	June 2014 - July 2018

Articles Published in International Journals

- ✓ **S.P. Anjali Devi and J. Wilfred Samuel Raj**, “Thermodiffusion effects on unsteady hydromagnetic free convection flow with heat and mass transfer past a moving vertical plate with time dependent suction and heat source in a slip flow regime”, **International Journal of Applied Mathematics and Mechanics, (China) 2011, 7(21) : 20-51.**
- ✓ **S. P. Anjali Devi, S. Anne Susan Georgena and J. Wilfred Samuel Raj**, “Heat transfer and radiation effects over an unsteady MHD flow past a stretching surface embedded in a porous medium with variable heat flux in the presence of heat source or sink”, **Proceedings of 21st and 10th ISHMT – ASME Heat and Mass transfer Conference 2011, 306-311.**
- ✓ **S. P. Anjali Devi and J. Wilfred Samuel Raj**, “Numerical investigation of MHD boundary layer forced convection flow of a viscous electrically conducting fluid past a permeable shrinking sheet”, **Proceedings of International Conference on Mathematical Modeling and Applied soft computing 2012, Vol 1, ISSN : 978-81-923752-1-2, 956-968.**
- ✓ **S.P. Anjali Devi and J. Wilfred Samuel Raj**, “ Steady MHD boundary layer flow past a shrinking sheet in the presence of chemical reaction and suction with prescribed heat and mass flux”, **Research Journal of Science and Technology, (India) 2013, Vol 5, ISSN : 09754373, 165-172.**
- ✓ **S.P. Anjali Devi and J. Wilfred Samuel Raj**, “Numerical simulation of Magnetohydrodynamic forced convective boundary layer flow past a stretching/shrinking sheet prescribed with variable heat flux in the presence of heat source and constant suction” **Journal of Applied Fluid Mechanics, Indexed in ISI (Thomson Reuters), Impact Factor- 0.8, Science Citation Index Expanded (Iran), Vol 7, Number 3, 2014, 415-423.**
- ✓ **S.P. Anjali Devi and J. Wilfred Samuel Raj**, “Nonlinear radiation effects on hydromagnetic boundary layer flow and heat transfer over a shrinking surface” **Journal of Applied Fluid Mechanics Indexed in ISI (Thomson Reuters), Impact Factor- 0.8, Science Citation Index Expanded (Iran), Vol 8, Number 3, 2015, 613-621.**
- ✓ **S.P. Anjali Devi, M. Agneeshwari and J. Wilfred Samuel Raj**, “Radiation Effects on MHD Boundary Layer Flow and Heat Transfer Over a Nonlinear Stretching Surface With Variable Wall Temperature in the Presence of Non-

Uniform Heat Source/Sink” **International Journal of Applied Mechanics and Engineering, Vol 23, Number 2, 2018, 289-305.**

- ✓ **J. Wilfred Samuel Raj and S.P. Anjali Devi**, “Internal heat generation/absorption effects on MHD radiative flow over a non-isothermal stretching/shrinking surface embedded in a porous medium” **Applied Mathematics and Computational Intelligence (Accepted for publication).**

WORKSHOP/SEMINAR /FDP /CONFERENCE ATTENDED

- ✓ **International Workshop on Mathematical Modeling and Computational Fluid Dynamics** Sathyabama University, Chennai, 13-15 Dec. 2010.
- ✓ **User Awareness Programme on E-resources under UGC-INFLIBNET Digital Library Consortium** Bharathiar University, Coimbatore, 15th Sep. 2011.
- ✓ **User Awareness Programme on E-resources under UGC-INFLIBNET Digital Library Consortium** Bharathiar University, Coimbatore, 30th Jan. 2013.
- ✓ **Bridge Course on Mathematics** Centre for Faculty Development, Anna University, Chennai, 23rd and 24th June 2014.
- ✓ **International Seminar on Advanced Simulation Techniques and Computational Methods** Sri Krishna College of Technology, Coimbatore, 16th Dec. 2014.
- ✓ **Bridge Course On Mathematics** Centre for Faculty Development, Anna University, Chennai, 26th and 27th June 2015.
- ✓ **Faculty Development Programme on Instructional Design and Delivery System** NITTTR, Chennai, 16th – 20th August 2016.
- ✓ **Statistics Training Programme on MS- R studio** DUCEN, Chennai, and 6th - 9th September 2016.
- ✓ **National level workshop on Emerging Trends in Mathematics** KG College of Arts & Science, Coimbatore, 8th October 2016.
- ✓ **Workshop on Engineering Mathematics using MATLAB** Kalaignar Institute of Technology, Coimbatore, 22nd December 2016.

- ✓ **Faculty Development Programme on Graph theory and its applications**
KPR institute of Engineering and Technology, Coimbatore, July 2017
- ✓ **Workshop on Computational methods for fluid dynamics** Dr. N.G.P. Arts and Science College, Coimbatore, 23rd -25th November 2017
- ✓ **National Workshop on Manuscript preparation and PowerPoint with LATEX** Kumaraguru College of Technology, Coimbatore, 03rd February 2018
- ✓ **FDP on Linear Algebra and its applications** Dr. N.G.P. Arts and Science College, Coimbatore, 28th July 2018
- ✓ **67th Annual Conference of Tamil nadu Ophthalmic Association** , Accredited by Tamil nadu Dr. MGR Medical University, 9th -11th August 2019

CONFERENCE/SEMINAR PRESENTATION

- ✓ **Title: Slip flow effects on unsteady MHD free convective flow with heat and mass transfer over a vertical plate with time dependent suction and sores effect**
National Conference on Advances in Applied Mathematics, 20-21 Jan. 2011, Bharathiar University, Tamilnadu, India.
- ✓ **Title: Hall effects on MHD boundary layer free convective flow with radiative heat transfer over a permeable shrinking sheet**
56th Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM), 19-21 Dec. 2011, Sardar Vallabhai National Institute of Technology, Surat, Gujarat, India.
- ✓ **Title: Numerical investigation of MHD boundary layer forced convection flow of a viscous electrically conducting fluid past a permeable shrinking sheet**
International Conference on Mathematical Modelling and Applied Soft Computing (MMASC 2012), 11-13 July 2012, Coimbatore Institute of Technology, Coimbatore, Tamilnadu, India.
- ✓ **Title: Steady MHD boundary layer flow past a shrinking sheet in the presence of chemical reaction and suction with prescribed heat and mass fluxes**
International Conference in Mathematical Sciences held during 8-9 March 2013, Government College, Haripur, and Himachal Pradesh, India.

- ✓ **Title: Viscous and Ohmic heating effects on MHD forced convective flow over a shrinking surface with prescribed heat flux in the presence of radiation and internal heat generation**
International Seminar on Advances in Applied Mathematics (ISAAM), 26 August 2013, Bharathiar University, Coimbatore, Tamilnadu, India.
- ✓ **Title: MHD boundary layer flow and radiative heat transfer with viscous and Joule heating over a shrinking surface in the presence of internal heat generation**
3rd International Science Congress (ISC - 2013), 8th and 9th December 2013, Karunya University, Coimbatore, Tamilnadu, India.
- ✓ **Title: Internal heat generation/absorption effects on Magneto-convective flow and radiative heat transfer over a shrinking sheet immersed in a porous medium**
National Conference on Advances in Applied Mathematics (NCAAM – 2015), 12th and 13th February 2015, Bharathiar University, Coimbatore, Tamilnadu, India.

LECTURE/TALKS GIVEN

- ✓ **Title: One day State level Seminar on Recent Trends in Pure and Applied Mathematics.**
1st February 2019, Manonmaniam Sundaranar University Constituent Model College, Nagalapuram, Thoothukudi, Tamil nadu, India.

AWARDS/FELLOWSHIPS

- ✓ Secured **First Rank** in M. Sc. Mathematics.
- ✓ Received **University Research fellowship** from **Bharathiar University** during May 2009 - April 2012.
- ✓ Received **Cash award** for best teaching during 2017-18 at **Sri Shakthi Institute of Engineering and Technology, Coimbatore** based on students feedback.

OTHER ACTIVITIES/ACADEMIC CREDENTIALS

Positions held / currently holding	Year - From (month/year) To month/year)
Washburn Hall-Superintendent	22.07.2018 To 30.09.2018
Mathematical Colloquium-Staff in charge	June 2019- till date

Degree	Subject	College/ University & Place	Year Completed
SET (State Eligibility Test)	Mathematics	-	2016