NAME : **Dr. R. Kalaivanan**
POSITION : **Assistant Professor**
FACULTY OF : **Mathematics**
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DATE OF BIRTH : **10-04-1989**

LANGUAGES PROFICIENCY

READ : **Tamil, English**
WRITE : **Tamil, English**
SPEAK : **Tamil, English**

1. QUALIFICATION

S. NO.	DEGREE / DIPLOMA / CERTIFICATE	DISCIPLINE	NAME OF THE INSTITUTION	YEAR OF PASSING
1.	**U.G.**	MATHEMATICS	SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE, COIMBATORE.	2009
2.	**P.G.**	MATHEMATICS	SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE, COIMBATORE.	2012
3.	**M.PHIL.**	MATHEMATICS	SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE, COIMBATORE.	2014
4.	**PH.D.**	MATHEMATICS	SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE, COIMBATORE.	2019
5.	**B.Ed**	MATHEMATICS	STANDLY COLLEGE OF EDUCATION	2010
6.	**CERTIFICATE**	LATEX	SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE, COIMBATORE.	2016

2. TEACHING EXPERIENCE

S. NO.	INSTITUTION	UG		PG	
		FROM	TO	FROM	TO
1.	VIVEKANANDA COLLEGE, MADURAI	17-06-2019	STILL	----	-----

3. AREAS OF SPECIALIZATION

- **Computational Fluid dynamics**
- **Nano-boundary layer flows**
- **Heat and Mass transfer**

7. NATIONAL/INTERNATIONAL SEMINARS, WORKSHOPS, CONFERENCES & SYMPOSIUMS PARTICIPATED

S. NO.	PROGRAMME	SPONSORED BY	ORGANIZED BY	DATE	PARTICIPATED/ PRESENTED	TITLE OF THE PAPER
1.	National Conference on Nonlinear Differential Equations	UGC	Sri Ramakrishna Mission Vidyalaya College of Arts and Science	18,19-02-2011	Participated	
2.	National Seminar on Recent Advances in Mathematics and Its Applications		Tejaa Sakthi Institute of Technology for Women	22-02-2012	Participated	
3.	National Seminar on Graph Theory and Its Applications	TANSCHE	Providence College for Women	17-12-2012	Participated	

4.	One Day Seminar on Recent Advances in Mathematical Research		Sri Ramakrishna Mission Vidyalaya College of Arts and Science	14-03-2013	Participated	
5.	National Conference on Advances in Applied Mathematics		Bharathiar University	25-02-2014	Presented	MHD Slip flow over a stretching sheet with non-uniform heat source/sink and thermal radiation: Prescribed surface Temperature
6.	National Conference on Recent Advancements in Science and Humanities		United Institute of Technology	22-03-2014	Presented	Slip Effect on raditive flow over a porous stretching sheet
7.	International Conference on Mathematical Sciences	University of Central Florida, USA & The Institute of Mathematical Sciences	Sathyabama University	17 to 19-07-2014	Participated	
8.	Advanced Workshop on Hyperbolic PDEs: Theory, Numerical & Applications	NBHM, DST, LNMIIT	The LNM institute of Information Technology, Jaipur	01 to 09-12-2014	Participated	
9.	Conference on Partial Differential Equations	NBHM, DST, LNMIIT	The LNM institute of Information Technology, Jaipur	10, 11-12-2014	Presented	Heat and Mass transfer of MHD slip flow over a stretching sheet with thermal radiation and viscous dissipation effects
10.	International Seminar on Advanced Simulation Techniques and Computational Methods		Sri Krishna College of Technology	16-12-2014	Participated	
11.	National Conference on Advanced in Applied mathematics		Bharathiar University	12,13-02-2015	Presented	MHD Slip flow over a stretching sheet with viscous dissipation and thermal radiation
12.	STTP on Advanced Computational methods in Engineering And Science		NIT, Warangal	01 to 03-04-2015	Participated	
13.	Advanced level Training Program on Differential Equations	DST	IIT Bombay and Birla institute of technology & Science, Pilani, Goa	25-05-2015 to 14-06-2015	Participated	
14.	International Seminar on Scope for Research and Emerging Trends in Fluid Dynamics		KPR Institute of Engineering and Technology	27-08-2015	Participated	
15.	One Day Science Symposium	IISER, Tiruvanantapuram	Regional Science Center,	18-11-2015	Participated	

		And Tamilnadu Science and Technology	Coimbatore			
16.	International Conference on Computational Heat and Mass Transfer		NIT, Warangal	30-11-2015 to 02-12-2015	Presented	Effects of Aligned Magnetic field on slip flow of Casson Fluid over a stretching sheet
17.	One Day National Conference on Recent Advances in Mathematics and its Applications		Tejaa Shakthi Institute of Technology for Women	12-03-2016	Presented	MHD Viscous dissipative slip flow over a stretching sheet: heat and mass flux cases
18.	National Workshop on Analysis, Differential Equations& Applications		Mohanlal Sukhadia University, Udaipur	25 to 27-02-2016	Presented	An analytical solution for viscous dissipative MHD Slip Flow over a stretching Sheet
19.	National Workshop on MATLAB		Karpagam University	03-09-2016	Participated	
20.	International Conference on Renewable Energy and Environmental	SERB	Sri Ramakrishna Mission Vidyalaya College of Arts and Science	15, 16-12-2016	Presented	Numerical solution of nanofluid flow through porous stretching sheet with inclined MHD effects
21.	National Conference on Recents Advances in Mathematical Science	UGC	Government Science College, Bengaluru	09, 10-02-2017	Presented	Magnetohydrodynamic Slip Flow over a Stretching Sheet in the presence of Viscous Dissipation, Space and Temperature Dependent Heat Source/Sink and Thermal Radiation
22.	International Conference on Differential Equations and Applications		Bharathiar University	15, 16-03-2017	Participated	
23.	National Conference on Pure and Applied Mathematics		P.K.R Arts College for Women	01-08-2017	Participated	
24.	Three days National Workshop on Applications of CFD a Hands-on Approach		Bannari Amman Institute of Technology	10 to 12-08-2017	Participated	
25.	Science Academics Lecture Workshop on Theoretical and Computational Fluid Dynamics	IAS, INSA, NASI	Bharathiar University	04 to 06-10-2017	Participated	
26.	Two Days national Workshop on Mathematical and Computational Challenges in Radar and	CSIR	P.A. College of Engineering and Technology	12, 13-10-2017	Participated	

	Seismic Technology					
27.	National Workshop on Analytical and Numerical solutions of Partial Differential Equations	NBHM, SERB	NIT, Karnataka	18 to 22-12-2017	Participated	
28.	International Conference on Advances in Mathematical Sciences	SIAM-VIT	VIT University	01 to 03-12-2017	Presented	Non-uniform heat source/sink effects on Casson Fluid in the presence of inclined magnetic fields
29.	Science Academics Lecture Workshop on Applicable mathematics-2018	IAS, INSA, NASI	Hindusthan College of Arts and Science	05,06-03-2018	Participated	
30.	National Conference on Computational Topology and Differential Equations		Anna university and DRDO-BU CLS	21-04-2018	Presented	Thermal Radiation and viscous dissipation effects on MHD Slip Flow over a Stretching Sheet
31.	International Conference on Applied Computational Mathematics		Erode Arts and Science college	10-08-2018	Presented	Analytical Studies on Radiative boundary layer flow over a porous stretching sheet with slip and heat flux effects
32.	2nd International Conference on Collaborative Research in Mathematical Sciences		KG College of Arts and Sciences	06-10-2018	Presented	Magneto-hydrodynamics slip flow over a stretching sheet
33.	Workshop on Error Free Manuscript Writing for Science Journal		Sri Ramakrishna Mission Vidyalaya College of Arts and Science	15-10-2018	Participated	
34.	7 Day National Workshop on Pure analysis, Differential Equations and Its Applications		Sri Vidya Mandir Arts and Science College	15 to 21-11-2018	Participated	
35.	Two-Day National level Workshop on Theoretical and Computational Fluid Dynamics	CSIR	Erode Sengunthar Engineering College	21, 22-12-2018	Participated	
36.	International Conference on Application of Fluid dynamics	SIAM	VIT University, University of Botswana	13 to 15-12-2018	Presented	Effect of non –Uniform Heat source/sink and Aligned magnetic field of Walter's –B Fluids over a Stretching Surface
37.	International Conference on Mathematical Modeling in Science and Engineering	UGC, SERB	Bharathiar University	01, 02-02-2019	Presented	Viscous Dissipation effects on Walter's liquid B fluid flow over a stretching sheet with uniform heat source/sink
38.	National Level Workshop on Mathematical modeling of Hydrodynamics-a Dynamics of Blood Flow	CSIR	Erode Sengunthar Engineering College	11 to 16-02-2019	Participated	
39.	Workshop on	DST	Bharathiar	12 to	Participated	

	Applications of Differential Equations		University	14-02-2020		
40.	International Conference on Pure and Applied Mathematics		Padmavani Arts and Science College for Women	15-02-2020	Presented	Second grade nanofluid flow over a porous medium in the presence of inclined magnetic field with elastic deformation and uniform heat source/sink effects

8. ARTICLES PUBLISHED IN JOURNALS

S. NO.	TITLE OF THE ARTICLE	JOURNAL NAME	NATIONAL / INTERNATIONAL	MONTH / YEAR	VOL. NO. & ISSUE NO. PAGE NO.	ISSN	PUBLISHER
1.	Analysis of natural convection for a Casson-based multiwall carbon nanotube nanofluid in a partially heated wavy enclosure with a circular obstacle in the presence of thermal radiation	Journal of Advanced Research	International	2021	Article In Press	2090-1232	Elsevier
2.	Buoyancy-driven convection of MWCNT–Casson nanofluid in a wavy enclosure with a circular barrier and parallel hot/cold fins	Alexandria Engineering Journal	International	2021	Article In Press	1110-0168	Elsevier
3.	Buoyancy driven second grade nano boundary layers over a catalytic surface with reaction rate, heat of reaction and activation energy at boundary	Case Studies in Thermal Engineering	International	2021	28, 101346	2214-157X	Elsevier
4.	Buoyancy driven Flow of a Second-Grade Nanofluid flow Taking into Account the Arrhenius Activation Energy and Elastic Deformation: Models and Numerical Results	Fluid Dynamics and Materials Processing	International	2021	17(2),319-332	1555-2578	Tech science press
5.	Exact solution for heat transport of Newtonian fluid with quadratic order thermal slip in a porous medium	Advances in the Theory of Nonlinear Analysis and its Applicatio ns	International	2021	5(1),39-48	2587-2648	Erdal KARAPINAR
6.	Numerical study of heat generating γ	Heliyon	International	2020	6(12), e05752	2405-8440	Elsevier

	Al2O3– H2O nanofluid inside a square cavity with multiple obstacles of different shapes						
7.	An investigation on Arrhenius activation energy of second grade nanofluid flow with active and passive control of nanomaterials	Case Studies in Thermal Engineering	International	2020	22, 100774	2214-157X	Elsevier
8.	Ohmic dissipation effect of Walter'sB fluids over a porous stretching sheet in the presence of inclined magnetic field	Journal of Physics: Conference Series	International	2020	1597(1), 012007	1742-6596	IOP Science
9.	Existence of the golden ratio in Tanjavur Brihadeeshwarar temple	Open Journal of Mathematical Sciences	International	2020	4(1), 211-219	2616-4906	PSR Press
10.	Slip effects on Ohmic dissipative non-Newtonian fluid flow in the presence of aligned magnetic field	Journal of Applied and Computational Mechanics	International	2020	6(2), 296-306	2383-4536	Shahid Chamran University of Ahvaz
11	Thermal radiation effects on Walter's Liquid B Fluid over a stretching surface in the presence of aligned magnetic field with prescribed heat flux	Advances in Applied Research	National	2019	11(1),53-58	2349-2104	psgr krishnammal college for women
12.	Nanofluid slip flow through porous medium with elastic deformation and uniform heat source/sink effects	Computational Thermal Sciences: An International Journal	International	2019	11(3),269-283	1940-2554	Begell House
13.	The impact of aligned magnetic field on Walters Liquid B fluid over a stretching surface with Rosseland diffusion approximation	Malaya Journal of Matematik	International	2018	6(3),658-663	2321 - 5666	University Press
14.	Effect of elastic deformation on nano-second grade fluid flow over a stretching surface	Frontiers in Heat and Mass Transfer	International	2018	10, 1-9	2151-8629	Thermal Fluids Central
15.	Elastic Deformation Effects on Heat and Mass Fluxes of	Journal of Nanofluids	International	2018	7(2),325-337	2169-4338	American Scientific Publishers

	Second Grade Nanofluid Slip Flow Controlled by Aligned Lorentz Force						
16.	Hydromagnetic axisymmetric slip flow along a vertical stretching cylinder with convective boundary condition	Journal St. Petersburg Polytechnical University Journal: Physics and Mathematics	International	2016	2(4),273-280	2405-7223	Elsevier
17.	Influence of inclined Lorentz forces on boundary layer flow of Casson fluid over an impermeable stretching sheet with heat transfer	Journal of Magnetism and Magnetic Materials	International	2016	401,354-361	0304-8853	Elsevier
18.	Velocity slip effects on heat and mass fluxes of MHD viscous–Ohmic dissipative flow over a stretching sheet with thermal radiation	Ain Shams Engineering Journal	International	2016	7(2),791-797	2090-4479	Elsevier
19.	Effects of Aligned Magnetic Field on Slip Flow of Casson Fluid over a Stretching Sheet	Procedia Engineering	International	2015	10,1-9	1877-7058	Elsevier
20.	Effect of Partial Slip on Hydromagnetic Flow over a Porous Stretching Sheet with Non Uniform Heat Source/Sink, Thermal Radiation and Wall Mass Transfer	Ain Shams Engineering Journal	International	2014	7(2),325-337	2090-4479	Elsevier

9. ARTICLES PUBLISHED IN BOOKS WITH ISBN

S. NO.	TITLE OF THE ARTICLE	BOOK NAME	MONTH / YEAR	PAGE NO.	ISBN	PUBLISHER
1.	Magnetohydrodynamic Slip Flow over a Stretching Sheet in the presence of Viscous Dissipation, Space and Temperature Dependent	2nd International Conference on Collaborative Research in Mathematical Sciences	2018	1-10	978-93-5311-214-15	KG College of Arts and Science
2.	Slip effect on radiative flow over a porous stretching sheet	Proceeding of the 3rd National conference on Recent Advancements in science and Humanities	2014	103-111	978-81-920799-4-3	UIT
3.	MHD axi-symmetric flow along a vertical stretching cylinder	proceeding of International conference on mathematical science	2014	270-273	ISBN - 978-93-5107-261-4	Elsevier ST

	with velocity slip and thermal jump					

10. MEMBER IN EDITORIAL BOARD OF NATIONAL/INTERNATIONAL JOURNALS

- **American Journal of Nano Research and Applications.**
- **American Journal of Applied Mathematics.**

11. E-CONTENT DEVELOPED

S. NO.	NAME OF THE COURSE	NAME OF THE E-CONTENT	MONTH / YEAR	LINK OF THE E-CONTENT DEVELOPED
1.	Analytical Geometry 3D and Vector Calculus	Analytical Geometry Basic	2020	https://www.youtube.com/watch?v=-P-nR5xxmtk
2.	Analytical Geometry 3D and Vector Calculus	Analytical Geometry 3D	2020	https://www.youtube.com/watch?v=S6rDP6W6zFE
3.	Boolean Algebra	Boolean Algebra	2020	https://www.youtube.com/watch?v=V4c4zaRSeEU&feature=youtu.be
4.	Linear Algebra	Linear Algebra	2020	https://www.slideshare.net/KalaivananRaja/linear-

12. AWARDS AND RECOGNITION RECEIVED

S. NO.	NAME OF THE AWARD/ RECOGNITION	NAME OF THE AWARDING GOVERNMENT/ GOVERNMENT RECOGNISED BODIES	YEAR OF AWARD
1.	Young Researcher Award	Infinty solution and Rathinam College of Arts and Science	2020
2.	Best Researcher Award	Vivekananda College, Madurai	2021

13. MEMBERSHIP IN PROFESSIONAL BODIES

- International Society For Research And Development (ISRD)
- International Association of Engineers (IAENG)
- VDGOOD Professional Association(2020-2021)
- Institute Scholar Professional Membership (InSc)

14. ANY OTHER

- Active participate different camp in National Service Scheme (NSS).
- Active participate in Information Course for Scoutmasters.
- Completed Microsoft Digital Literacy Certificate Test.
- Completed Certificate Course in Computer Fundamentals, Windows, MS-Office, Internet and C-Programmings.