FACULTY PROFILE

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| --- | --- |
| Name | Dr. J. Prakash |
| Father's Name / Mother's Name | P. Jayavel / J. Kamsala  |
| Date and Place of Birth | 06-05-1984 & Kongarayanur |
| Sex | Male |
| Marital status | Married |
| Nationality & Religion | Indian & Hindu |
| Community | MBC |
| Department | Mathematics  |
| Current Designation & Grade Pay | Assistant Professor & level 10 |
| Address for Correspondence | 54 A, Vinayakar Koil Street, Kongarayanur [Post],Panruti [T.K], Cuddalore [Dist], Pin code: 607 104, Tamil Nadu, India.  |
| Mobile | 9944060578 |
| Email IdEmail Id (Official) | prakashjayavel@yahoo.co.inprakashjayavel@dhtepdy.edu.in  |

Academic Qualifications:

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| --- | --- | --- | --- |
| Examinations | Subject | Year of Passing | Name of the Board/ University |
| S.S.L.C. |  | 1999 | State Board |
| H.S.C. |  | 2001 | State Board |
| UG: B.Sc. | Mathematics  | 2004 | Periyar E.V.R. College, Trichy, Bharathidasan University, Trichy |
| UG: B. Ed. | Mathematics  | 2005 | Institute of Advanced Study in Education, Saidapet, University of Madras, Chennai |
| PG: M.Sc. | Mathematics | 2007 | University of Madras, Chennai |
| TN-SET | Mathematics | 2012 | Bharathiar University, Coimbatore |

 Research Degrees

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| --- | --- | --- | --- | --- |
| Degrees | Subject | University | Title | Date ofAward |
| M. Phil. | Mathematics  | University of Madras, Chennai |  Fuzzy linear programming | Aug 2009 |
| Ph.D | Mathematics  |  Anna University, Chennai | A study of an external effect on Peristaltic motion of Newtonian/ non-Newtonian nanofluids in a tapered asymmetric channel | Mar 2017 |

Period of Teaching Experience: 12 Years and 07 Months

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| --- | --- | --- | --- |
| **Designation** | **Period** | **Organization** | **Nature of Employment** |
| **From** | **To** |
| **Assistant Professor** | Jan - 2019 | Till now  | Avvaiyar Government College for Women, Karaikal, Pudicherry UT | Permanent |
| **Assistant Professor - II** | Jun – 2018 | Dec – 2018 | SASTRA Deemed University, SRC Campus, Kumbakonam | Temporary |
| **Assistant Professor**  | Jul – 2016 | Jun – 2018 | Agni College of technology, Thalampur, Chennai | Temporary |
| **Assistant Professor** | Sep – 2011 | Jun – 2016 | Arulmigu Meenakshi Amman College of Engineering, Near Kancheepuram– 604 410 | Temporary |
| **Assistant Professor** | Sep – 2010 | Sep – 2011 | BKR College of Engineering and Technology, BKR Nagar, Tritutani. | Regular |
| **Project Assistant** | June –2009 | Sep – 2010 | Structural Engineering Research Centre (SERC), CSIR Campus, Taramain, Chennai -113 | Temporary |

Fields of Specialization under the Subject / Discipline

1. Fluid Dynamics
2. Application of PDE
3. Numerical Analysis
4. Fractional Differential equations

Academic Staff College Orientation / Refresher Courses Attended:

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| --- | --- | --- | --- |
| **Name of the Course / Summer****School** | **Place** | **Duration** | **Sponsoring****Agency** |
| 128th  Orientation course | Pondicherry University | 22-05-2019 to 11-06-2019 | UGC-MHRD |
| Two – WeekRefresher CourseIn “Mathematical Sciences” | Pandit Madan Mohan malaviya national Mission on Teachers and teaching, New Delhi | 14-07-2021 to 28-07-2021 | Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, |
| UGC – Approved Short Term Professional Development Programme | Pandit Madan Mohan malaviya national Mission on Teachers and teaching, New Delhi | 09-09-2022 to 17-09-2022 | Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, |

 Research Publications:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No****.** | **Title** | **Year** | **Journal** | **Volume- Page****with Impact Factor (IF)**  |
|  | Irreversibility and heat transfer analysis in MHD Darcy-Forchheimer flow of Casson hybrid nanofluid flow through cone and wedge | 2023 | Numerical Heat Transfer, Part B: Fundamentals | Accepted**IF : 1.378** |
|  | Thermal analysis on electromagnetic regulated peristaltic blood-based graphane/diamond nanofluid flow with entropy optimization | 2023 | Numerical Heat Transfer, Part B: Fundamentals | Accepted**IF : 1.378*** <https://doi.org/10.1080/10407790.2023.2211731>
 |
| 1. | Peristaltic pumping of hybrid nanofluids through an asymmetric microchannel in the presence of electromagnetic fields | 2023 | Journal of Thermal Science and Engineering Applications | Accepted**IF : 1.544** |
| 2. | Homotopy analysis on the bio-inspired radiative magnesium and iron oxides/blood nanofluid flow over an exponential stretching sheet | 2023 | Computational Particle Mechanics | Accepted**IF: 3.116****(Springer Publication)**<https://doi.org/10.1007/s40571-023-00600-2> |
| 3. | Computation of EMHD ternary hybrid non-Newtonian nanofluid over a wedge embedded in a Darcy-Forchheimer porous medium | 2023 | International Journal of Ambient Energy | Accepted**IF: 0.421****(Taylor & Francis Publication)** |
| 4. | Investigating to chemically reactive and radiative Darcy/non-Darcy stagnation point flow of ternary composite nanofluids with moderate Prandtl numbers | 2023 | International Journal of Modelling and Simulation | <https://doi.org/10.1080/02286203.2023.2188515>**IF: 2.91 (Taylor & Francis Publication)** |
| 5. | Entropy analysis of Hybrid Nanofluid flow over a rotating porous disk: A multivariate analysis | 2023 | Special Topics & Reviews in Porous Media: An International Journal | **DOI:** 10.1615/SpecialTopicsRevPorousMedia.2023045379**IF: 0.305****(Begell house Publication)** |
| 6. | Rotation, electromagnetic field, and variable thermal conductivity effects on free convection flow past an eternity vertical porous plate | 2023 | Heat transfer | . [**https://doi.org/10.1002/htj.22797**](https://doi.org/10.1002/htj.22797)**IF: 2.42****(Wiley Publication)** |
| 7. | Heat transfer and hydromagnetic electroosmotic Von Kármán swirling flow from a rotating porous disc to a permeable medium with viscous heating and Joule dissipation | 2023 | Heat transfer | [**https://doi.org/10.1002/htj.22837**](https://doi.org/10.1002/htj.22837)**IF: 2.42 (Wiley Publication)** |
|  |
| 8. | Rotational flow and thermal behavior of ternary hybrid nanomaterials at small and high Prandtl numbers | 2022 | International Communications in Heat and Mass Transfer | 138, 106337, 2022  **IF:6.78 (Elsevier publication)** |
| 9. | Numerical analysis of electromagnetic squeezing flow through a parallel porous medium plate with impact of suction/injection,  | 2022 | Waves in Random and Complex Media | <https://doi.org/10.1080/17455030.2022.2088890>**IF: 4.051****(Taylor & Francis Publication)** |
| 10. | Tangent hyperbolic non-Newtonian radiative bioconvection nanofluid flow from a bi-directional stretching surface with electro-magneto-hydrodynamic, Joule heating and modified diffusion effects**,** | 2022 | The European Physical Journal Plus, | 137 (4) 472,2022, **IF: 3.758 (Springer Publication)** |
| 11. | Computation of magnetohydrodynamic electro-osmotic modulated rotating squeezing flow with zeta potential effects | 2022 | Colloids and Surfaces A: Physicochemical and Engineering Aspects | 640, 128430. **IF:5.51****(Elsevier publication).** |
| 12. |  Electroosmotic modulated unsteady squeezing flow with temperature-dependent thermal conductivity, electric and magnetic field effects, ,  | 2022 | Journal of Physics: Condensed Matter | 34 (17) 175701.**IF: 2.745****(IOP Publication).** |
| 13. | EMHD Casson hybrid nanofluid flow over an exponentially accelerated rotating porous surface, | 2022 | Journal of Porous Media | 25(11) 1-24**.****IF: 1.572****(Begell House Publication).** |
| 14. | Impact of electromagnetic flow of a MHD Casson fluid over an oscillating porous plate,  | 2022 | Heat Transfer | 51(5) 4053-4079. **IF: 2.42****(Wiley Publication)** |
| 15. |  Insight into Newtonian fluid flow and heat transfer in vertical microchannel subject to rhythmic membrane contraction due to pressure gradient and buoyancy forces  | 2022 | International Journal of Heat and Mass Transfer | 184, 122249**.****IF: 5.584 (Elsevier publication)** |
| 16. |  Thermo-electrokinetic rotating non-Newtonian hybrid nanofluid flow from an accelerating vertical surface | 2022 | Heat Transfer | 51(2) 1746-1777,**IF: 2.42****(Wiley Publication)** |
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| 17. | Numerical simulation of double diffusive convection and electroosmosis during peristaltic transport of a micropolar nanofluid on an asymmetric microchannel | 2021 | Journal of Thermal Analysis and Calorimetry | 143 (3), 2499-2514,**IF: 4.755****(Springer Publication)** |
| 18. |  Influence of Electroosmosis Mechanism and Chemical Reaction on Convective Flow Over an Exponentially Accelerated Plate,  | 2021 | International Journal of Applied and Computational Mathematics,  | 7(4), 1-26.  **(Springer Publication)** |
| 19. |  Impact of electroosmotic flow on a Casson fluid driven by chemical reaction and convective boundary conditions,  | 2021 |  Heat transfer  | 50(5), 4993-5019, **(IF: 2.42) (Wiley Publication)** |
| 20. |  A study of electro‐osmotic and magnetohybrid nanoliquid flow via radiative heat transfer past an exponentially accelerated plate,  | 2021 | Heat transfer | 50(5), 4937-4960 **(IF: 2.42) (Wiley Publication)** |
| 21. | Heat and mass transfer effect of a Magnetohydrodynamic Casson fluid flow in the presence of inclined plate,  | 2021 | Indian Journal of Pure and Applied Physics  | 59 (1), 28-30, 2021.**IF: 0.6** **(CSIR Journal)** |
| 22. | Numerical study of electroosmosis induced alterations in peristaltic pumping of couple stress hybrid nanofluids through microchannel,  | 2021 | **Indian Journal of Physics** | 95 (11), 2411-2421. **IF: 1.947** **(Springer Publication)** |
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| 23. | Heat transfer enhancement in radiative peristaltic propulsion of nanofluid in the presence of induced magnetic field | 2020 | Numerical Heat Transfer, Part A: Applications | 79 (2), 83-110,**IF: 2.569**  **(Taylor & Francis Publication)** |
| 24. | Numerical simulation of double diffusive convection and electroosmosis during peristaltic transport of a micropolar nanofluid on an asymmetric microchannel | 2021 | Journal of Thermal Analysis and Calorimetry | [143,](https://doi.org/10.1007/s10973-020-10214-y) 2499-2541**IF: 4.755****(Springer Publication)** |
| 25. | Thermal, microrotation, electromagnetic field and nanoparticle shape effects on Cu-CuO/blood flow in microvascular vessels | 2020 | Microvascular Research | 132, 104065,  **IF:3.75****(Elsevier publication).** |
| 26. | Study of EDL phenomenon in Peristaltic pumping of a Phan-Thien-Tanner Fluid through asymmetric channel | 2020 | Korea-Australia Rheology Journal | 32(4), 271-285**IF : 1.404 (Springer Publication)** |
| 27. | 3D Bioconvective multiple slip flow of chemically reactive Casson nanofluid with gyrotactic micro‐organisms | 2020 | Heat Transfer—Asian Research | 49 (1), 135-153 **IF : 0.8****(Wiley Publication)** |
| 28. | Comparative analysis of Cu/blood and Cu–CuO/blood nanofluids on a peristaltic flow governed by an asymmetric channel | 2020 | Heat Transfer—Asian Research | 49(8), 4923-4944 **IF : 0.8****(Wiley Publication)** |
| 29. | Convective heat transfer and double diffusive convection in ionic nanofluids flow driven by peristalsis and electromagnetohydrodynamics | 2020 | Pramana | 94 (1), 4 **IF : 2.669 (Springer Publication)** |
| 30. | Comparative study of hybrid nanofluids in microchannel slip flow induced by electroosmosis and peristalsis | 2020 | Applied Nanoscience | 10, 1693 – 1706 **IF : 3.674 (Springer Publication)** |
| 31. | Peristaltic pumping of Nanofluids through a tapered channel in a porous environment: Applications in Blood flow | 2019 | Symmetry | 11, 868 **IF : 2.94 (MDPI Publication)** |
| 32. | Thermal analysis for heat transfer enhancement in electroosmosis modulated peristaltic transport of sutterby nanofluids in a microfluidic vessel | 2019 | Journal of thermal analysis and calorimetry | 138 (2), 1311-1326 **IF: 4.755****(Springer Publication)** |
| 33. | 3D radiative-convective flow of ZnO-SAE50 nano-lubricant in presence of homogeneous and heterogeneous reactions |  2019 | Propulsion and Power Research | 8 (4), 339 – 350 **IF : 4.563****(Elsevier publication)** |
| 34. | Thermal slip and radiative heat transfer effects on electro-osmotic magneto-nanoliquid peristaltic propulsion through a microchannel | 2019 | Heat Transfer-Asian Research | 48 (7), 2882-2908 **IF : 0.8****(Wiley Publication)** |
| 35. | Non – linear blood flow analysis on MHD peristaltic motion of a Williamson fluid in a micro channel | 2019 | AIP Conference Proceedings | 2112, 020048 **(IOP Publication)** |
| 36. | Influences of shear stress on peristaltic transport of a non-Newtonian fluid in a micro asymmetric channel | 2019 | AIP Conference Proceedings | 2112, 020053 **(IOP Publication)** |
| 37. | Nanofluids flow driven by peristaltic pumping in occurrence of magnetohydrodynamics and thermal radiation | 2019 | Materials Science in Semiconductor Processing | 100, 290-300 **IF : 4.644****(Elsevier publication)** |
| 38. | Electroosmotic flow of Pseudoplastic nanofluid via peristaltic pumping | 2019 | Journal of the Brazilian Society of Mechanical Sciences and Engineering | 41, 61 **IF : 2.361****(Springer Publication)** |
| 39. | Computer modelling of peristalsis driven intrauterine fluid flow in presence of electromegnetohydrodynamics |  2019 | The European Physical Journal Plus | 134, 81 **IF : 3.758****(Springer Publication)** |
| 40. | A Method for Solving Fuzzy Partial Differential Equation by Fuzzy Separation Variable |  2019 | International Research Journal of Engineering and Technology | 6 (1), 77 – 86 |
| 41. | Heat Transfer and Slip Effects on the MHD Peristaltic Flow of Viscous Fluid in A Tapered Microvessels: Application of Blood Flow Research |  2019 | International Journal of Engineering and Advanced Technology | 9 (1), 5384 – 5390 |
| 42. | Peristaltic Pumping of Magnetic Nanofluids with Thermal Radiation and Temperature-Dependent Viscosity Effects: Modelling a solar Magneto-Biomimetic Nanopump | 2019 | Renewable Energy | 133, 1308-1326 **IF : 8.634****(Elsevier publication)** |
| 43. | Thermal radiation effects on electro-osmosis modulated peristaltic transport of nanofluids in biomicrofluidics channel | 2018 | Journal of molecular liquids | 249, 843-855 **IF : 6.633****(Elsevier publication)** |
| 44. | Effect of magnetic field on peristaltic flow of a fourth grade fluid in a tapered asymmetric channel | 2018 | Journal of King Saud University: Engineering Sciences | 30 (1), 86-95**IF : 0.778****(Elsevier publication)** |
| 45. | Alterations in peristaltic pumping of Jeffery nanoliquids with electric and magnetic fields | 2018 | Meccanica | 53 (15), 3719-3738 **IF : 2.538 (Springer Publication)** |
| 46. | Influence of variable viscosity on peristaltic motion of a viscoelastic fluid in a tapered microfluidic vessel | 2018 | International Journal of Engineering & Technology | 7 (4.10), 49-54**IF : 0.205** |
| 47. | MHD Peristaltic Transport of a Dusty Couple Stress Fluid Through a Symmetric Porous Channel | 2018 | International Journal of Engineering & Technology | 7 (4.10), 306-309**IF : 0.205** |
| 48. | Effects of magnetic field on peristaltic transport of a carreau fluid in a tapered asymmetric channel | 2018 | Journal of physics: Conference Series | 1000, 012166 **(IOP Publication)** |
| 49. | Effect of peristaltic flow of a third grade fluid in a tapered asymmetric channel | 2018 | Journal of physics: Conference Series | 1000, 012165 **(IOP Publication)** |
| 50. | Electroosmotic flow of Williamson ionic nanoliquids in a tapered microfluidic channel in presence of thermal radiation and peristalsis | 2018 | Journal of molecular liquids | 256, 352 – 371 **IF : 6.633****(Elsevier publication)** |
| 51. | Numerical simulation of heat transfer in blood flow altered by electroosmosis through tapered micro-vessels | 2018 | Microvascular Research | 118, 162 – 172 **IF : 3.75****(Elsevier publication)** |
| 52. | Nonlinear peristaltic motion of a Jeffery nanofluid with shear stress and MHD effects | 2017 | Mechanika | 23(3), 374 – 381 **IF : 0.579 (KUT Publication)** |
| 53. | Effect of induced magnetic field on peristaltic flow of a fourth grade fluid through a tapered asymmetric channel | 2017 | International Journal of Pure and Applied Mathematics | 113 (09), 1 – 7.**IF : 0.5 (Academic Publication)** |
| 54. | Effects of slip and heat transfer on the Magnetohydrodynamics peristaltic flow of a Jeffery fluid through a vertical tapered asymmetric channel | 2016 | Global Journal of Pure and Applied Mathematics | 12, 205-212 **IF : 0.34****(Research India Publications)** |
| 55. | Analysis of Peristaltic Motion of a Nanofluid with Wall Shear Stress, Microrotation, and Thermal Radiation Effects | 2016 | Applied Bionics and Biomechanics | 2016, Article ID: 4123741 **IF : 1.664**(**Hindawi Publication)** |
| 56. | Influence of MHD on peristaltic transport of a Johnson-Segalman fluid through a tapered asymmetric channel | 2016 | Global Journal of Pure and Applied Mathematics | 12(3), 236-242 **IF : 0.34 (Research India Publications)** |
| 57. | Convective bounary conditions effects on peristaltic flow of a MHD Jeffery nanofluid | 2016 | Applied Nanoscience, | 6, 323-335 **IF : 3.674 (Springer Publication)** |
| 58. | Numerical approximations of non-linear fractional differential difference equations by using Modified He-Laplace method | 2016 | Alexandria Engineering Journal | 55(1), 645-651**IF: 6.626****(Elsevier publication)** |
| 59. | Nonlinear peristaltic motion of a Johnson–Segalman fluid in a tapered asymmetric channel | 2016 | Alexandria Engineering Journal | 55(1), 645-651**IF: 6.626****(Elsevier publication)** |
| 60. | Influence of thermal radiation and magnetic field on peristaltic transport of a Newtonian nanofluid in a tapered asymmetric porous channel | 2016 | Journal of nanofluid | 5 (3), 363-374**IF: 1.79****(American Scientific Publication)** |
| 61. | Influences of chemical reaction and convective boundary conditions on the peristaltic transport of MHD Jeffery nanofluids | 2016 | Journal of nanofluid | 5 (6), 790-801**IF: 1.79****(American Scientific Publication)** |
| 62. | Analysis of heat and mass transfer on MHD peristaltic flow through a tapered asymmetric channel | 2015 | Journal of fluids | 2015, Article ID 561263(**Hindawi Publication)** |
| 63. | Effects of thermal radiation parameter and magnetic field on the peristaltic motion of Williamson nanofluids in a tapered asymmetric channel | 2015 | International Journal of Heat and Mass Transfer | 81, 234–245**IF: 5.584****(Elsevier publication)** |
| 64. | Effects of thermal radiation and chemical reactions on peristaltic flow of a Newtonian nanofluid under inclined magnetic field in a generalized vertical channel using Homotopy Perturbation Method | 2015 | Asia-Pacific Journal of Chemical Engineering | 10, 259-272**IF: 1.447****(Wiley Publication)** |
| 65. | Effect of Radiation and Magnetic field on Peristaltic Transport of Nanofluids through a Porous Space in a Tapered asymmetric channel | 2015 | Journal of Magnetism and Magnetic Materials | 378, 152-163**IF: 3.097****(Elsevier publication)** |
| 66. | The peristaltic transport of Carreau Nanofluids under effect of a magnetic field in a tapered asymmetric channel: Application of the cancer therapy | 2015 | Journal of Mechanics in Medicine and Biology | 15, 1550030**IF: 0.897****(World Scientific Publication)** |
| 67. | Influence of heat source, thermal radiation and inclined magnetic field on peristaltic flow of a Hyperbolic tangent nanofluid in a tapered asymmetric channel | 2015 | IEEE Transactions NanoBioscience | 14 (4), 385-392**IF: 3.206****(IEEE Publication)** |
| 68. | Effects of heat transfer, magnetic field and space porosity on peristaltic flow of a Newtonian fluid in a tapered channel | 2015 | Applied Mechanics and Materials | 813-814, 679-684.**IF: 0.2****(Scientific.net publications)** |
| 69. | Peristaltic transport of a MHD Carreau fluid in a tapered asymmetric channel with permeable walls | 2015 | International Journal of Biomathematics | 08, 1550054 **IF: 1.08****(World Scientific Publication)** |
| 70. | Predicted Service Life of Chloride Transport Equation Using Finite Difference Scheme |  2011 | International Journal of Mathematical Sciences and Applications | 1, 451-462**(Mind Reader Publications)** |

Books / Book Chapters Published:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No****.** | **Title** | **CoAuthor** | **Publications** | **Year** |
| 1 | Composite Nanofluids Flow Driven by Electroosmosis Through Squeezing Parallel Plates in Presence of Magnetic Fields | R Balaji, D. Tripathi, AK Tiwari, RK Sharma | Advancements in Nanotechnology for Energy and Environment,**(Springer Publication)** | 2022 |
|  2 | [Thermal analysis of γAl2O3/H2O and γAl2O3/C2H6O2 elastico-viscous nanofluid flow driven by peristaltic wave propagation with electroosmotic and magnetohydrodynamic effects: Applications in Nanotechnological Energy Systems](https://scholar.google.co.in/scholar?oi=bibs&cluster=13363508570538791947&btnI=1&hl=en) | D Tripathi,OA Beg | Energy Systems and Nanotechnology , Advances in Sustainability Science and Technology, 201-247  **(Springer Publication)** | 2021 |
| 3 | A model for electro-osmotic flow of Pseudoplastic nanofluids in presence of peristaltic pumping: An application to Smart Pumping in energy system | MG. Reddy,D. Tripathi,AK. Tiwari | Nanotechnology for energy and environmental engineering, 185 – 213.**(Springer Publication)** | 2020 |

Papers Presented in National / International Conferences:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No****.** | **Topic** | **Conference** | **Organized By** | **Period** |
| 1. | Electro-Magneto-Hydrodynamic Casson Hybrid Nanofluid Flow Driven Byan Exponentially Accelerated Plate | International Conference On New Trends In DifferentialEquations And Applied Mathematics(Icntdeam - 2021) | Sri Vidya Mandir Arts and Science College (Autonomous), Krishnagiri in collaboration with CHRIST (Deemed to be University), Bengaluru and Jyothi Engineering College, Thrissur | April 12-13, 2021. |
| 2. | Electroosmotic flow of Hybrid Nanofluids in microchannel with long-wavelength vibrations | Proceedings of the 64th Congress of THE INDIAN SOCIETY OF THEORETICAL AND APPLIED MECHANICS (An International Conference) | Indian Institute of Technology, Bhubaneswar Bhubaneswar, India | 9-12, December 2019 |
| 3. | Effects of Magnetic field on Peristalsis transport of a Carreau Fluid in a tapered asymmetric channel | National Conference on Mathematical Techniques and its Applications (NCMTA 18 | SRM Institute of Science and Technology, Kattankulathur, on 5-6 January 2018 | 5-6 January 2018 |
| 4. | Effect of peristaltic flow of a third grade fluid in a tapered asymmetric channel | National Conference on Mathematical Techniques and its Applications (NCMTA 18) | SRM Institute of Science and Technology, Kattankulathur | 5-6 January 2018 |
| 5. | Peristaltic transport of a couples stress fluid in a tapered asymmetric channel: Application to embryo transport in uterine cavity or application to ureteral | International Conference on Recent Innovations in Science & Technology (RIST – 2017) | Transist online | 25th March 2017 |
| 6. | Analytic solution for Run-up flow of a MHD fluid between parallel porous plates | International Conference on Mathematics and its Applications (ICMAA 2014) | University College of Engineering, Anna University, Villupuram | 15-17December 2014 |
| 7. | Homotopy analysis transforms method for solving integral and system of Integro-Differential equations | International Conference on Mathematical Sciences (ICMS-2014) | Sathyabama University, Chennai | 17- 19July, 2014 |
| 8. | A new analytic algorithm for solving differential-difference equations | International conference on Mathematical Modeling and Applied Soft Computing (ICMMASC – 2012) | Coimbatore Institute of Technology, Coimbatore | 11– 13 July 2012 |
| 9. | Representation of Chloride Transport in Concrete with Permeability in Marine Environment Based on Finite Difference Scheme | National Conference on Recent Frontiers in Applied Dynamical System” (NCRFADS – 2011) | Karunya University, Coimbatore, India | 21 – 22, January 2011 |
| 10. | Fuzzy Arithmetic Progression | International Conference on Mathematics and Computer Science (ICMCS – 2011). | Loyola College, Chennai, India | 7 – 8,  January 2011 |

Seminars/Webinars/Workshops/Conferences Organized:

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| **Sl.****No.** | **Seminars/Webinars/** **Workshops/ Conferences** | **Organized By** | **Period** | **Convener/****Coordinator/ Member** |
| 1. | Short term course competitive exam training programme/ placement training  | Department of Mathematics, Avvaiyar Government College for Woemn, Karaikal | 5th & 6th march 2019 | Organized committee member |
| 2. | National E- Quiz on Numerical Methods | Department of Mathematics, Avvaiyar Government College for Woemn, Karaikal | 21 - 25May 2020 | Coordinator |
| 3.  | National E - Quiz Competition On National Mathematics Day, 133rd birth anniversary of Srinivasa Ramanujan on 22nd December 2020 | Department of Mathematics, Avvaiyar Government College for Woemn, Karaikal | 21 - 22December 2020 | Coordinator |
| 4. | National level webinar on “Interesting facts about numbers and it’s friend” on 133rd Birth Anniversary of Srinivasa Ramanujan which is celebrated as the National Mathematics Day | Department of Mathematics, Avvaiyar Government College for Woemn, Karaikal | 23December 2020 | Organized committee member |
| 5. | National level webinar on " 134rd Birth Anniversary of Srinivasa Ramanujan". We are glad to organize this webinar on "Symmetries and similarity reductions of certain partial differential equations". | Department of Mathematics, Avvaiyar Government College for Woemn, Karaikal | 23December 2021 | Organized committee member |
| 6. | International Seminar on Advances in Mathematics ISAM – 2022 | Department of Mathematics, Avvaiyar Government College for Woemn, Karaikal | 21-23December 2022 | Organized committee member |

Seminars/Webinars/Workshops/Conferences/FDP Attended:

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| **Sl.****No.** | **Seminars/Webinars/** **Workshops/ Conferences** | **Organized By** | **Period** |
|  **1** | National One Week Faculty Development Program(online) on RecentTrends in VLSI and Nano Electronics | Department of Electronics and Communication Engineering, Sree Vidyanikethan EngineeringCollege (Autonomous), Tirupati, Andhra Pradesh, India. | 4th - 9th July 2022, |
| **2** | GUJCOST(DST, Govt. of Gujarat)sponsored International Symposium on“Recent Advances in Fractional Calculus” | Department of Mathematical Sciences, P. D. Patel Institute ofApplied Sciences (PDPIAS), Charotar University of Science and Technology (CHARUSAT), Changa (388 421), Gujarat, India | 30th September and 1st October, 2021. |
| **3** | One week virtual International Lecture Workshop on “New Advances in Mathematical and Computational Sciences” | Department of Applied Mathematics, Yogi Vemana University Kadapa, AP | 13-18, September, 2021 |
| **4** | GUJCOST sponsored two – Days national workshop on “Application of Numerical Methods for Medical Science & Engineering” | Department of Science & Humanities, Swarmim Institute of Technology, Gandhinagar. | 24-25, August 2021 |
| **5** | One Day International Webinar on “Eco friendly energy technology and its future” | Avvaiyar Government College for Women, Karaikal, U.T Puducherry | 2 July 2021 |
| 6 | Two day webinar on “Development of Governing equations of Fluid flow” | KPRIET, Coimbatore | 02-03, August, 2021 |
| **7** | UGC Sponsored Faculty DevelopmentProgramme on “ASPECTS OF MATHEMATICS ” | PG & Research Department of Mathematics,DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE(Autonomous)Chennai - 600 106. | 22nd - 28th March2021. |
| **8** | AICTE sponsored 5-Day Online Faculty Development Program on *'Examination Reforms'*organized by | National Institute of Technology Mizoram from | 15th February to 19th February 2021 |
| 9 | Two day National level online Workshop on Insightful Rudiments of Originating Google Forms & Generating Certificates – A Horde of Approaches Adaptable for Online Academic motives | Department of Humanities & Science, Balaji Institute of Technology & Science, Narsampet, Warangal Rural, Telangana, India | 25 & 26 September 2020 |
| 10 | “Five Days International e-Seminar on Recent Research in Mathematics (ISRRM-2020)” | Department of Mathematics, School of Science, GITAM, Bengaluru | 11– 15 September, 2020 |
| 11 | Online Faculty Development Programme on “MATLAB” | Dr.Y.C. JAMES YEN GOVERNMENT POLYTECHNIC, Kuppam, Chittoor Dist., A.P | 16–18August 2020 |
| 12 | One week webinar on “Online Educational Resources for Effective Remote Teaching” | Pondicherry University, Puducherry | 10– 14August 2020 |
| 13 | One week online International Faculty Development Program on “Recent Advances in Mathematics & Statistics” | Birth Centenary of Prof. C. R. Rao, jointly organized by GITAM (Deemed to be University) Visakhapatnam, Andhra Pradesh, India | 3 – 8August 2020 |
| 14 | Workshop on “Fundamentals of CFD” | Vikrant group of institution | 30th July 2020. |
| 15 | Online short term training programme (STTP) on “MATLAB and MATHEMATICA for Scientific Research” | Arul Anandar College (Autonomous) Karumathur 625514, Madurai, | 27–29July 2020 |
| 16 | International Webinar on “Mathematics is the Brain of Engineering & Technology” | Vignana Bharathi Institute of Technology (Autonomous), Hyderabad, Telangana | 26th July 2020. |
| 17 | National Level One Week ConfederatedOnline Faculty Development Program on “Orienting Applications & ConceptualizedAspects of Sciences & Humanities” | Dept. of Humanities & SciencesBalaji Institute of Technology & Science, Narsampet, Warangal Rural, Telangana, India | 21 – 25July 2020. |
| 18 | One week Online Short Term Training Program (STTP) on "Fundamentals of Computational Fluid Dynamics and Numerical Simulation of Fluid Flows and Heat Transfer" | Government College of Technology, Coimbatore, Tamilnadu and National Institute of Technology, Arunachal Pradesh. | 6 – 10July 2020 |
| 19 | National webinar on “Numerical and Scientific computing” | Manipal University Jaipur | 1st July 2020 |
| 20 | Two days International webinar on “APPLICATIONS OF FLUID MECHANICS IN PHYSIOLOGICAL FLOW MODELS” | DIT University, Dehradun, Uttarakhand, India | 29 – 30June 2020 |
| 21 | Four days “National Webinar on Fluid Mechanics and its Applications in Engineering Science” | PES Institute of Technology and Management, Shivamogga, Karnataka | 24– 27June 2020. |
| 22 | National webinar on “Fluid Dynamics” | Manipal University Jaipur | 23rd June 2020 |
| 23 | Three day online short term training programme on “LATEX for Everyone” | Ramro Adik Institute of Technology, Nerul, Navi Mumbai | 18 – 20June 2020 |
| 24 | National Level One Week Online Short Time Training Program on " MATLAB for ALL" | SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY, Bangalore-562157 | 04 – 8June 2020 |
| 25 | Webinar on “Writing Research Papers and Submissions by Prof. Lance Fung” | IEEE Malaysia Section Consultants Network Affinity Group and IEEE Young Professionals Malaysia | 03rd June 2020 |
| 26 | Online one week Faculty Development Programme on “Mathematical and Statistical Modelling” | Godavari Institute of Engineering and Technology (Autonomous) | 26 – 30May 2020. |
| 27 | Online Webinar “International Webinar on COVID-19 Impact on Society” | Dr. M. K. Umathe College, Nagpur, Dharampeth M.P. Deo Memorial Science College Nagpur & Bar. Sheshrao Wankhede Arts and Commerce College, Khaperkheda | 23th May 2020. |
| 28 | Online Short Term Training Program (5 days) on “MATLAB based Teaching-Learning in Mathematics, Science & Engineering” | Ramrao Adik Institute of Technology, Nerul, Navi Mumbai in collaboration with Design Tech Systems Pvt. Ltd., Mumbai | 18– 22May 2020. |
| 29 | FDP program on “Recent Technology – 2020” | SRM Institute of Science and Technology, Chennai | 15 – 17May 2020. |
| 30 | Season 5 FDP of Skycampus on the theme “The Future of Skills – Education” | ICT Academy, Chennai | 11 – 15May 2020 |
| 31 | Webinar on “MECH 4.0 Technical Webinar Series” | Sathyabama Institute Science & Technology, Chennai | 7 – 8May 2020. |
| 32 | Faculty Development Programme on “LaTeX and Scilab” | D.K.M. College for Women, Vellore, Tamil Nadu in association with Spoken Tutorial Project, IIT Bombay, MHRD, Govt. of India | 30th April 2020to04th May 2020 |
| 33 | Workshop on “Scope for R&D Projects and Proposal Preparation | Anna University Chennai | 12th May 2017 |
| 34 | Participated in the Bridge Course on Mathematics | Anna University Chennai | 26 – 27June 2015 |
| 35 | National Workshop on “Analytic & Numerical Solution of Non – linear Differential Equations” | Department of Mathematics, Amrita School of Engineering, Bengaluru | 18– 19 March, 2011 |
| 36 | A Short Term Course on Optimization Theory & Practice | Stella Maris College, Chennai | 15, 17 27&28 December 2007 |

Other Relevant Information:

1. Worked as an Assistant Chief Superintendent – Pondicherry University Exam in Nov/Dec 2019.
2. Acted as a Question paper setter for B.Tech, Mathematics subject in TNJFU
3. Acted as a PhD Thesis evaluation – Thiruvalluvar University
4. Acted as a Question paper setter for UG & PG degree examination, EGS Pillay arts & Science College.
5. Acted as a Math Club Coordinator (2019 - till now)
6. Act as a Chaired Technical session – National conference, 19-20 December 2021, NIT Uttarakhand
7. Act as a Chaired Technical session – International Conference on Mathematics and its Applications in Technology 2023 (ICMAT 2023), Srinivasa Ramanujan Centre, SASTRA Deemed to be University, Kumbakonam- 612 001
8. Worked as Presiding Officer during the General Elections to the Puducherry Legislative Assembly – 2021.
9. Acted as Resource person – Idhaya College for Women, (06/08/2021)
10. Acted as an Invited talk – Saiva Bhanu Kshatriya College (23/12/2021)

**Membership in Research Bodies**

Researcherid: E-6017-2016

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=57001018500>

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Research gate: <https://www.researchgate.net/profile/Prakash_Jayavel2?ev=hdr_xprf>

Google Scholar: <https://scholar.google.co.in/citations?user=R8nKdrQAAAAJ&hl=en>

https://vidwan.inflibnet.ac.in/profile/199444

 **Membership in Professional Bodies**

International Association of Engineers (IAENG)

 **Computer Proficiency**

Computer cum Internet Literacy Programme, NIIT, Trichy.

MATLAB, MATHEMATICA & MAPLE