

Achievements of Faculty Members ** For the year 2024-25 ** 1 of 3

Details of research papers per teacher in the Journals notified on UGC website during the year 2024-25

SL.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Month and Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
1	Exploring Resilience in Neil Gaiman's Neverwhere	Dr. D. Dhanalakshmi	English	Shanlax International Journal of Arts, Science and Humanities. Vol.12	Sep-24	P-ISSN: 2321-788X	
2	Reconnaissance on Ethnic Identity in the Novels of Zadie Smith	Dr. D. Dhanalakshmi	English	The Bodhi International Journal of Research in Humanities, Arts and Science Volume:9 Special Issue -5	Jan-25	E-ISSN: 2456-5571	
3	Margins to Voices: A Study of Monica Ali's Brick Lane and Zadie Smith's White Teeth	Dr. D. Dhanalakshmi	English	Academia and Society Journal-International Journal of Education and Society Volume :11	Feb-25	Print ISSN : 2393-9419	
4	Ecological Crises in Amitav Ghosh's Hungry Tide	Dr. A. Noble JebaKumar	English	Anusandhanvallari Journal	Jan-25	ISSN: 2229-3388	
5	Focusing the Mind's Eye: Enhancing Concentration with Visual Aids in ELLT	Dr. A. Noble JebaKumar	English	Insight: An International Peer Reviewed and Refereed Multilingual Journal of Arts and Humanities	Apr-25	ISSN: 2582-8002	
6	Enhancing Creative Writing with AI Tools: A Quantitative Study	Dr. A. Noble JebaKumar	English	Indian Journal of Psychology	Mar-25	ISSN: 0019-5553	
7	Concentration Catalysts: Visual Approaches for Effective ELLT	Dr. A. Noble JebaKumar	English	ShodhGyan- NU: Journal of Literature and Culture	Aug-24	ISSN: 2584-1300	
8	Phonological Influences in Second Language Learning, Remedial Strategies, and Recommendations for College Students	Dr. A. Noble JebaKumar	English	Sparkling International Journal of Multidisciplinary Research Studies	Sep-24	ISSN 2581-7574	
9	Enhancing Technical Communication Skills in Engineering Students through Brainstorming Techniques	Dr. A. Noble JebaKumar	English	International Journal of All Research Education & Scientific Methods ISSN: 2455-6211	Feb-25	ISSN: 2455-6211	
10	Bridging Cultures: The Role of Language in Developing Intercultural Competence.	Dr. A. Noble JebaKumar	English	The International Journal of English Language, Literature and Culture	Mar-25	ISSN (Online): 3049-2033	
11	Empowering Business English learners with task-based Language Teaching: A Pedagogical Approach	Dr. A. Noble JebaKumar	English	Forum for Linguistic Studies	Mar-25	ISSN 2705-0610	
12	Architectural Marvels: The Enigmatic Rock-Cut Cave Temple Of Thirumayam	Dr. G. Kasthuri Thilagam & R. Poorana Chandra	History	Nilam International Research Journal Of Arts And Culture			
13	A Study on Problems and prospects of Flowers Cultivation in Thiruchirappalli District of Tamilnadu.	Dr. A. Gopalakrishnan	ECONOMICS	International Journal of Economics (IJEEO)	January – June (2025)	0945-7101	https://www.ijfmr.com/papers/2025/2/38623.pdf
14	A Study on the Flower Cultivation and Marketing behavior in Tamilnadu with Special Reference to Tiruchirappalli District.	Dr. A. Gopalakrishnan	ECONOMICS	International Journal for Multidisciplinary Research (IJFMR)	May-25	2582-2160	https://www.ijfmr.com/papers/2025/2/38623.pdf
15	A Study on Marketing Challenges of Commercial Flower Cultivation in India.	Dr. A. Gopalakrishnan	ECONOMICS	International Journal of research and Analytical Reviews(IJRAR)	Nov-25	2349-5138	Print Journal

16	A Study on Cost and Return of Marigold Flower in Tiruchirappalli District of Tamil Nadu.	Dr. A. Gopalakrishnan	ECONOMICS	Inspira-Journal of Commerce, Economics & Computer Science (JCECS).	October-December-2025	2395-7069	Print Journal
17	An Analysis of Balance of Trade in Indian Context	Dr. A. Mohamed Abdullah	ECONOMICS	<u>International Development Planning Review</u> , Vol. 23 No. 2 (2024)	10.07.2024	1474-6743 E - ISSN: 1478-3401	http://idpr.org.uk/index.php/idpr/article/view/375
18	Assessing the effectiveness of India's Free Trade Agreement (Ftas): A Comparative Analysis.	Dr. A. Mohamed Abdullah	ECONOMICS	South Eastern European Journal of Public Health (SEEJPH) , Vol. XXV S1, PP.1125-1130	20.10.2024	2197-5248	http://doi.org/10.70135/seejph.vi.2003
19	Comparing Supervised and Unsupervised Learning Technologies for Customer Segmentation in Marketing	Paramasivan C and et al	Commerce	Ninth International Conference on Science Technology Engineering and Mathematics	2024	ISSBN – 979-8-3503-6509	
20	Navigating Digital Transformation in Banking with Cloud Computing Solutions	Paramasivan C and et al	Commerce	Open Journal of Business and Management	2024		
21	Payment Banks – A New Milestone for Banking Penetration in India	Paramasivan C and Ravichandiran G	Commerce	International Journal of Financial Engineering	2024		
22	Artificial Intelligence Applied to Digital Marketing	Paramasivan C and et al	Commerce	YUGATO	2024		
23	A Study on Performance of Pradhan Mantri Mudra Yojana Scheme in Tamil Nadu	Paramasivan C and Ravichandiran G	Commerce	Charulatha Publication	2025	ISBN – 978-93-6260-000-0	
24	A Study on Sustainable Development Goals through the Startup Ecosystem in Tamil Nadu	Paramasivan C	Commerce	SELP Journal of Social Science	2025		
25	Impact of Composition Scheme in New GST regime in Tamil Nadu	Kannan B	Commerce	SOUTH INDIA JOURNAL OF SOCIAL SCIENCES	Dec-24	0972-8945	https://doi.org/10.62656/SIJS.v22i4.1274
26	Deciding Between ITC and Composition Scheme: A Guide for Small Businesses in the GST Era	Kannan B	Commerce	THE CHARTERED ACCOUNTANT	Jan-25	0009-188X	https://www.icai.org/post/icai-e-journal-main
27	Enhancing Foreign Tourism in Kerala	Kannan B	Commerce	RESEARCH EXPLORER	APRIL-JUNE 2025	2250-1940	https://iaraindia.com/research-explorer/research-explorer-previous-issues/
28	Digital Technology Usage and Demographics	Ramachandran R	Commerce	Educational Administration : Theory and Practice	2024	2148-2403	
29	Cardinality and Isomorphic Properties of Hajós Graphs and Hajós Fuzzy Graphs	K Radha, A Jasmine Kingsly	Mathematics	Indian Journal of Science and Technology	Vol.17, Issue 37, Sep.2024, 3871-3880	ISSN: Print: 0974-6846, Electronic: 0974-5645 DOI: 10.17485/IJST/v17i37.2492	https://indjst.org/archives
30	Distance Degree Sequence and Distance Neighborhood Degree Sequence of Vertices in Fuzzy Graphs and Some of Their Properties	K Radha, S R Gayathri	Mathematics	Indian Journal of Science and Technology	Vol.17, Issue:41, Nov.2024, 4349-4357	ISSN: Print: 0974-6846, Electronic: 0974-5645 DOI: 10.17485/IJST/v17i41.1933	https://indjst.org/archives
31	Effective and Difference Mean Edges in Fuzzy Graphs	K. Radha, & S. Sri Harini.	Mathematics	Journal of Computational Analysis and Applications	VOL. 33, NO. 6, 2024, 754-759	ISSN: 1521-1398(P), 1572-9206 (O)	https://eudoxuspress.com/index.php/pub/article/view/930
32	Various Degrees of Vertices in Fuzzy Semigraphs and Some Relations among them	K.Radha and P.Renganathan	Mathematics	Indian Journal of Natural Sciences	Vol.15, Issue 86, Oct. 2024, 80201 - 80211	ISSN: 0976 – 0997	https://tmsroindia.org.in/JOURNAL/issue86/IJONS%20-%20ISSUE%2086%20%20OCT%202024%20-%20%20FRONT%20PAGE%20-%20PART%2002.pdf

33	On Properties of Distance Neighborhood Degree Sequence of Some Fuzzy Graphs	S.R.Gayathri and K.Radha	Mathematics	Indian Journal of Natural Sciences	Vol.15, Issue 87, Dec. 2024, 84601- 84606	ISSN: 0976 – 0997	https://tnsroindia.org.in/JOURNAL/issue87/IJONS%20-%20ISSUE%2087%20%20DECEMBER%202024%20%20%20FRONT%20PAGE%20-%20PART%2002.pdf
34	Cardinality of Hajós Graphs and Hajós Fuzzy Graphs on Star, Wheel, Sun Graph and Helm Graph	A.Jasmine Kingsly and K.Radha	Mathematics	Indian Journal of Natural Sciences	Vol.15, Issue 87, Dec. 2024, 84806- 84812.	ISSN: 0976 – 0997	https://tnsroindia.org.in/JOURNAL/issue87/IJONS%20-%20ISSUE%2087%20%20DECEMBER%202024%20%20%20FRONT%20PAGE%20-%20PART%2002.pdf
35	Characterizations for Degree Set of Intuitionistic Fuzzy Graphs on Complete Graph, Path and Wheel	K.Radha, P.Pandian and P.Indumathi	Mathematics	Indian Journal of Natural Sciences	Vol.15, Issue 87, Dec. 2024, 84883- 84888.	ISSN: 0976 – 0997	https://tnsroindia.org.in/JOURNAL/issue87/IJONS%20-%20ISSUE%2087%20%20DECEMBER%202024%20%20%20FRONT%20PAGE%20-%20PART%2002.pdf
36	Characterizations of Difference-Mean Edges in Some Binary Operations of Fuzzy Graphs	S.Sri Harini and K.Radha	Mathematics	Indian Journal of Natural Sciences	Vol.15, Issue 87, Dec. 2024, 84944- 84952.	ISSN: 0976 – 0997	https://tnsroindia.org.in/JOURNAL/issue87/IJONS%20-%20ISSUE%2087%20%20DECEMBER%202024%20%20%20FRONT%20PAGE%20-%20PART%2002.pdf
37	Order, Size, Truncations and Total Degree of Lexicographic Max-Product of Fuzzy Graphs	K.Radha, P.Indumathi, P.Pandian and A.Uma	Mathematics	Indian Journal of Natural Sciences	Vol.15, Issue 87, Dec. 2024, 84995- 85002.	ISSN: 0976 – 0997	https://tnsroindia.org.in/JOURNAL/issue87/IJONS%20-%20ISSUE%2087%20%20DECEMBER%202024%20%20%20FRONT%20PAGE%20-%20PART%2002.pdf
38	An Inventory Model for Seasonal products with varying demand function and price discount	S. Anusuya Baggiyalakshmi, M.Maragatham, P. Mariappan	Mathematics	Journal of Computational Analysis and Applications	Vol. 33 No. 07 (2024): JOCAAA, 568–571	1521-1398 (Paper), 1572-9206 (Online)	https://eudoxuspress.com/index.php/pub/article/view/1111
39	An EPQ Model with Varying Demand for Uncertain Quality Products	S Anusuya Baggiyalakshmi, M Maragatham	Mathematics	Indian Journal of Science and Technology	2024, Volume: 17, Issue: 40, Pages: 4221-4224	Print ISSN : 0974-6846, Online ISSN : 0974-5645	https://doi.org/10.17485/IJST/v17i40.2923
40	Two Warehouse Inventory Model with Quadratic Demand and Permissible Delay in Payments	S. Anusuya Baggiyalakshmi, M.Maragatham, P. Mariappan	Mathematics	Journal of Computational Analysis and Applications	Vol. 33 No. 07 (2024): JOCAAA, 572–580	1521-1398 (Paper), 1572-9206 (Online)	https://www.eudoxuspress.com/index.php/pub/article/view/1112
41	A Comparison of Two-Warehouse Inventory Model under Various Scenario	S. Anusuya Baggiyalakshmi and M. Maragatham	Mathematics	Indian Journal of Natural Sciences	Vol.15, Issue 86, Oct 2024, 81282-81288	ISSN: 0976 – 0997	https://tnsroindia.org.in/JOURNAL/issue86/IJONS%20-%20ISSUE%2086%20%20OCT%202024%20-%20%20FRONT%20PAGE%20-%20PART%2002.pdf
42	Some Fixed Point Propositions for Non-self Functions in Metrically Convex Spaces	S. Savitha, P. Thirunavukarasu	Mathematics	Journal of Mechanics of Continua and Mathematical Sciences	Vol.19, No.7, July 2024, 77-90	ISSN:(P) 0973-8975, (ONLINE) 2454-7190, https://doi.org/10.26782/jmcs.2024.07.00006	https://doi.org/10.26782/jmcs.2024.07.00006
43	Theorems for Near Stable Points on a Near Banach Space Furnished with Graph	Savitha S, Thirunavukarasu P	Mathematics	Communications on Applied Nonlinear Analysis	Vol. 31 No. 2 (2024)	1074-133X	https://doi.org/10.52783/cana.v31.527
44	Contractive Fixed Point Theorems in Cone G- Metric Spaces	M. Uma, P.Thirunavukarasu	Mathematics	Communications on Applied Nonlinear Analysis	Vol. 32 No. 2 (2025)	1074-133X	https://doi.org/10.52783/cana.v32.1730

45	Optical, dielectric, Hirshfeld surface analysis, mechanical, and photoacoustic spectroscopy of glycine nickel dichloride dihydrate single crystal for optoelectronic devices	P Revathi, T Balakrishnan, J Thirupathy	Physics	Journal of Materials Science: Materials in Electronics	2024	1573-482X	https://doi.org/10.1007/s10854-024-13183-2
46	An investigation on optical, dielectric and thermal analysis of semiorganic bisglycine cobalt chloride dihydrate single crystal for electronic and optoelectronic devices	P Revathi, T Balakrishnan, J Thirupathy	Physics	Optical and Quantum Electronics	2024	1573-482X	https://doi.org/10.1007/s11082-024-07713-9
47	Heat transfer enhancement in cylindrical heat pipes with MgO Al ₂ O ₃ hybrid nanofluids in water-ethylene glycol mixture: An RSM approach	R Vidhya, B Suresh Kumar, T Balakrishnan, G Navaneethakrishnan, R Palanisamy, Mamdooh Alwetaishi, Hussain Fayaz, Qasem M Al-Mdallal, Saurav Dixit	Physics	Case Studies in Thermal Engineering	2024	2214-157X	https://doi.org/10.1016/j.csite.2024.105278
48	An Investigation on Structural, Optical, Thermal, and Dielectric Analysis of L-Lysine Iodide Semiorganic Nonlinear Optical Single Crystal for Optoelectronic Application	P Revathi, T Balakrishnan, J Thirupathy	Physics	Brazilian Journal of Physics	2024	1678-4448	https://doi.org/10.1007/s13538-024-01588-7
49	Crystal Growth, Optical, Mechanical and Dielectric Analysis of Semiorganic Glycine Manganese Sulphate Single Crystal for Opto-Electronic Device Application	P Revathi, T Balakrishnan, J Thirupathy	Physics	Crystal Research and Technology	2024	0232-1300	https://doi.org/10.1002/crat.202400173
50	Antibacterial and photocatalytic activity of Tb-doped ZnO nanoparticles: effect of doping concentration	A Jasmine, P Baskaran, L Bruno Chandrasekar, M Karunakaran, P Krishnaveni, T Balakrishnan, Lalitha Gnanasekaran, J Thirumalai, P Shunmuga Sundaram, Salim Manoharadas, Sonaimuthu Mohandoss, Subamanian Palanisamy	Physics	The European Physical Journal B	2025	1434-6028	https://doi.org/10.1140/epjb/s10051-025-00943-0
51	Facile synthesis of nickel-cobalt phosphate binary nanocomposite with an enriched electrochemical performance for asymmetric supercapacitor applications	Thilagasubbulakshmi A., Sivakumar P	Physics	Journal of Materials Science: Materials in Electronics	2024	1573-482X	https://doi.org/10.1007/s10854-024-13223-x
52	Investigated the effects of surfactant concentration on cobalt ferrite nanoparticles synthesized in reverse micelles	K. Devy, M. Murugan, G.S.V.R.K. Choudary, M. C. Varma	Physics	Digest Journal of Nanomaterials and Biostructures	2024	1842-3582	https://doi.org/10.15251/DJNB.2024.192.889
53	Crystal Structure, Vibrational, Optical, and Photoluminescence Analyses of Schiff Base 4-Bromo-N'-[(5-bromo-2-hydroxyphenyl)methylidene]benzohydrazide Single Crystals	C Arunagiri, S Selvakumar, J Christina Rhoda, C Karnan	Physics	Journal of Electronic Materials	2024	0361-5235	https://doi.org/10.1007/s11664-024-11441-x

54	Computational, Spectroscopic, Hirshfeld surface, Molecular docking and Topological studies on 2-bromo-5-methylpyridine as potent anti-cancer agent	J Senthil Kumar, N Siva Jyothi, S Sumathi, N Karthik, S Jeyavijayan	Physics	Indian Journal of Biochemistry and Biophysics (IJBB)	2025	0975-0959	https://doi.org/10.56042/ijbb.v62i7.13656
55	DFT Computation, Spectroscopic, Hirshfeld Surface, Docking and Topological Analysis on 2,2,5-Trimethyl-1,3-Dioxane-5-Carboxylic Acid as Potent Anti-Cancer Agent	J Senthil Kumar, N Karthik, S Sumathi, N Siva Jyothi, S Saranya, S Jeyavijayan	Physics	International Journal of Quantum Chemistry	2024	0020-7608	https://doi.org/10.1002/qua.27509
56	Fabrication of high-performance UV photodetector using gallium doped ZnO thin films by nebulizer spray pyrolysis method	R Akash, V Ganesh, M Thirumoorthi, D Deivatamil	Physics	Optical Materials	2025	0925-3467	https://doi.org/10.1016/j.optmat.2025.116715
57	Nanoalumina Synthesised from Solanum torvum Leaves: A green Approach	P.PANDIANP. Pandian P. KasthurA , P. Sameerabanu and K. K. Ilavenil*	CHEMISTRY	ORIENTAL JOURNAL OF CHEMISTRY	Sep-24	0970-020X	https://www.orientchem.org/vol40no5/nanoalumina-synthesized-from-solanum-torvum-leaves-a-green-approach/
58	Green Grape Seed Extract-Mediated Synthesis ofCuONanoparticles: Characterization and EnhancedAntibacterial Activity	Senthilkumar.V, Ilavenil K.K, Kasthuri. A and Pandian. P	CHEMISTRY	ADVANCES IN BIOLOGICAL SCIENCE RESEARCH	Feb-25	2468-5747	https://www.atlantispress.com/proceedings/icbest-24/126008203
59	Robust Regression Analysis for pregnant Women Nutrition Level of the State Tamil Nadu	Dr.S.Sasikala	Statistics	Panamerican Mathematical Journal	2025	ISSN: 1064-9735	https://doi.org/10.52783/pmj.v35.i3s.4055
60	Forecasting and Comparative Analysis of Groundnut and Maize Production in Tamil Nadu using Bootstrap Regression Techniques	Dr.M.Balasubramanian	Statistics	International Journal of Agricultural and Statistical Sciences	2025	ISSN: 0973-1903	DOI:10.59467/IJASS.2025.21.195
61	Identification of antimicrobial compounds from the palnt growth promoting bacteria (PGPR) tested against Fusarium wilt of tomato caused by <i>Fusarium oxysporum f.sp. Lycopersici</i>	S. Renga Sushma, Amzad Basha Kolar, Shaik Azeem Taj, S. I. Beema Jainab, N.P.M. Mohamed Tariq, M. D. Saravanamoorthy, C. Mariappan, Abdulrahman, I. Almansour, Sinouavassane Djeramaneh, Ling Shing Wong and Saminathan Kayarohanam	Botany	Journal of King Saud University - Science	Apr-24		
62	Phytochemical characterization of root and rhizome of critically endangered medicinal plant <i>Crinum malabaricum</i> Lekhak and Yadav	Midhun NK, Saravanamoorthy MD, and Abdussalam AK	Botany	Journal of Pharmacognosy and Phytochemistry	Apr-25	ISSN (E):2278-4136; ISSN (P):2349-8234	
63	Gas Chromatography-mass Spectrometry (GC-MS) Analysis of Phytoconstituents from Leaves of <i>Rhynchosglossum notoniaium</i> (Wall.) B.L.Burt	Midhun NK, Saravanamoorthy MD, and Abdussalam AK	Botany	International Journal of Creative Research Thoughts (IJCRT)	Apr-25	ISSN : 2320-2882	
64	Phytochemical characterization on Leaf of critically endangered medicinal plant <i>Crinum malabaricum</i> Lekhak and Yadav	Midhun NK, Saravanamoorthy MD, and Abdussalam AK	Botany	European Journal of Medicinal Plants	Jun-25		

65	Beneficial microbial diversity in the rhizosphere of <i>Casuarina equisetifolia</i> L., - A Mini Review IJIFACTOR: 4,9	M. Manoranjitham, T. Hemalatha and A. Vinotha	Botany	IJMFM&AP	Jun-25	ISSN (P): 2424-6921; ISSN (E): 2424-693X	DOI: 10.53552/ijmfmap.11.1.2025.107-115
66	Antibacterial Activity of Silver Nanoparticles Synthesized from Endophytic Streptomyces sp. CR13 Isolated from the Roots of <i>Ocimum tenuiflorum</i> L.	Chinnasamy Chinnaraju, Chinnaperamanoor Madhu Ganesan, Kandasamy Prabakar and A.R. Lavanya	Botany	Asian Journal of Chemistry	Apr-25		
67	Effect control of novel Hirudinaria manillensis extract on the molecular regulation of EGFR gene and its protein expression in HeLa cells	P. Zeebul Trinita Shannan · Susan G Suganya M. Ramesh · E. Angel Jemima	Zoology	Molecular Biology Reports (2024) 51:1061	Oct-24	Electronic ISSN: 1573-4978	https://doi.org/10.1007/s11033-024-10016-7
68	Characterization, antibacterial and anticancer activity of exopolysaccharide from bacteria isolated from marine sediment.	P. Mohideen Askar Nawas	Zoology	<i>Biochemical and Cellular Archive.</i>	October, 2024	0972-5075	https://www.connectjournals.com/pages/articledetails/toc038876
69	In Vitro Antioxidant and Anti-biofilm potential of Exopolysaccharide from Halophiles: Separation and characterization.	P. Mohideen Askar Nawas	Zoology	<i>International Journal of Zoological Investigation</i>	February, 2025	2454-3055	https://www.ijzi.net/Issue/1562016526IssueMS21.pdf
70	Enhanced Autism Severity Prediction: A Fusion of Convolutional Neural Networks And Random Forest Model	R. Ramya S. Panneer Arokiaraj	Computer Science	International Journal on Information Technologies And Security	02/05/2024	1313-8251	https://ijits-bg.com/sites/default/files/archive/2024(vol.16)/No2/contents/2024-N2-05.pdf
71	Index adjustable Deep Neural learning handles for resource efficient load balancing in a cloud environment	M.Ellakkiya Ravi S. Panneer Arokiaraj	Computer Science	Informatics and Automation	07/11/2024	2713-3206	https://ia.spcras.ru/index.php/sp/article/view/16263
72	Mayfly Optimization with Deep Learning Assisted Glaucoma Diagnosis on Retinal Fundus Images	Anita Madona, M Dr. Panneer Arokiaraj	Computer Science	Journal of Theoretical and Applied Information Technology	31-07-2024	ISSN: 1992-8645	https://jaitit.org/volumes/Vol102No14/1Vol102No14.pdf
73	An Exploration of Knowledge Based Approaches to Word Sense Disambiguation In Natural Language Processing – A Walk Through	Roopa H R Dr.Panneer Arokiaraj Dr.Meenatchi Sundaram	Computer Science	URBAN INDIA	July-Dec 2024	ISSN: 0970-9045	https://drive.google.com/file/d/1AxraOap0pXsRtBlbBzpwQwBDCGwnAQm/view?usp=sharing
74	RPL-eSOA: Enhancing IoT network sustainability with RPL and enhanced sandpiper optimization algorithm	Kavitha, V Dr. Panneer Arokiaraj	Computer Science	UGC Care Listed Journal The Scientific Temper	10.09.2024	2634-2643	https://doi.org/10.58414/SCIENTIFICTEMPER.2024.15.3.31
75	Enhancing the accuracy of Contextual Word Sense Disambiguation in Natural Language Processing Using a Transformer-Based Deep Learning Model	Roopa H R Dr.Panneer Arokiaraj Dr.Meenatchi Sundaram	Computer Science	Journal of Computational Analysis and Applications 10.48047/jocaaa.2024.33.08.202	12-10-2024	ISSN: 1521-1398	https://eudoxuspress.com/index.php/pub/article/download/3281/2349/6415
76	Enhanced Autism Severity Prediction: Hybrid Gradient Boosted Tree And Deep Learning Models	R Ramya Dr. S Panneer Arokiaraj	Computer Science	International Journal of Intelligent Systems and Applications In Engineering	06/12/2024	2147-6799	https://ijisae.org/index.php/IJISAE/article/view/6341/5153
77	Integrated Decision Support System (IDSS) For Autism Spectrum Disorder Diagnosis: A Multi-Model Framework Approach	R Ramya Dr. S Panneer Arokiaraj	Computer Science	Indian Journal of Science And Technology	12/12/2024	0974-6846	https://sciresol.s3.us-east-2.amazonaws.com/IJST/Articles/2024/Issue-45/IJST-2024-3348.pdf

78	Early Prediction of Glaucoma Disease with a Hybrid S-CIELAB - Based Smoothing Spatial Filter and Fast Fourier Transform	Anita Madona M Dr. S Panneer Arokiaraj	Computer Science	International Journal of Science and Research (IJSR)	01-02-2025	ISSN: 2319-7064	https://www.ijsr.net/archive/v14i2/SR25210222137.pdf
79	Random Probit Regressive Decision Forest Classification based IoT aware Content Caching with Healthcare Data	Ms.R.Sangeetha Dr.T.N.Ravi	Computer Science	IAENG International Journal of Computer Science	01/06/2024	1819-9224	https://www.iaeng.org/IJCS/issues_v51/issue_6/IJCS_51_6_03.pdf
80	Hybrid Intelligent Anomaly Detection System Using Attention based Deep Learning Approach for Cyber Attacks Prevention	Ms.N.Girubagari T N Ravi S Panneer Arokiaraj	Computer Science	International Journal of Science and Technology	10/08/2024	0974-6846	https://doi.org/10.17485/IJST/v17i38.2224
81	Feature Selection of Multi-class Data Sets Based on Enhanced Binary Gray Wolf Algorithm and Ant Colony Optimization Algorithm	R. Senthamil Selvi K Fathima Bibi	Computer Science	SN Computer Science	Nov-24	2662-995X	https://link.springer.com/article/10.1007/s42979-024-03402-2
82	Least Absolute Prone Factor Based Cardio Vascular Disease Prediction Using DenseNet Multi Perceptron Neural Network for Early Risk diagnosis	S. Tamil Fathima K Fathima Bibi	Computer Science	SN Computer Science	November 2024	2662-995X	https://link.springer.com/article/10.1007/s42979-024-03353-8
83	Colon Cancer Detection Using Exhaustive Correlation Feature Selection Based Genetic Decision Support Regression	Benazir Butto S K Fathima Bibi	Computer Science	SN Computer Science	December 2024	2662-995X	https://link.springer.com/article/10.1007/s42979-024-03561-2
84	Efficient Colon Cancer Identification Based on Genetics Sequence Linear Support Vector Feature Selection Using Adaptive Ensemble Boosting Fuzzified Deep Neural Network	Benazir Butto S K Fathima Bibi	Computer Science	SN Computer Science	May-24	2662-995X	https://link.springer.com/article/10.1007/s42979-024-02925-y
85	Tuning VGG19 hyperparameters for improved pneumonia classification	K Kalai Selvi M Kasturi	Computer Science	The Scientific Temper	Jun-24	0976-8653	DOI: https://doi.org/10.58414/SCIENTIFICTEMPER.2024.15.2.36
86	Pneumonia classification using VGG19 Transfer learning and data augmentation with PCA across diverse Chest X-Ray datasets	K Kalai Selvi Dr. M Kasturi	Computer Science	Journal of Electrical Systems	Vol 20-10s(2024): 6940-6945	ISSN-1112-5209	DOI: https://journal.esrgroups.org/jes/article/view/6780/4700
87	Pneumonia classification using Vgg19 Transfer Learning and augmentation across Chest X-ray datasets	K Kalai Selvi Dr. M Kasturi	Computer Science	African Journal of Biomedical Research	30/09/2024	ISSN 1119-5096	DOI: https://doi.org/10.53555/AJBR.v27i3S.2634
88	Enhancing Pneumonia image classification accuracy for GAN-Generated data Using DSITL of Customized VGG19 features with hybrid dimensionality reduction (DSITL-HDR)	K Kalai Selvi Dr. M Kasturi	Computer Science	Southern Eastern European journal of Public Health	Feb-25	2197-5248	https://www.seejph.com/index.php/seejph/article/view/4744/3121
89	AN EXPLORATORY STUDY ON CHILDREN VIEWING TAMIL REALITY SHOW ON SMARTPHONE IN MADURAI DISTRICT	Mr. Babu Shajan Kevin and Dr.I.Senthila Devi	Visual Communication	Journal of Social Science- A Blind Review & Refereed Quarterly Journal	October - December 2024	ISSN: 0975-9999 Year 2024 Volume XV, Issue 59 PP 19 - 22	https://drive.google.com/file/d/1WMTKISfehNFHid3ky25vZNRzVakXeG/view?usp=drive_link

90	A STUDY OF PARENTAL MEDIATION STRATEGIES IN CHILDREN'S VIEWING OF TAMIL TELEVISION REALITY SHOWSWITH REFERENCETO MADURAI DISTRICT	Mr. Babu Shajan Kevin and Dr.L.Senthila Devi	Visual Communication	Peer Reviewed International Journal of Interdisciplinary Researchin Arts & Humanities (IJIRAH)	2025	ISSN: 2456-3145 VOL 10, ISSUE 1, PP 41-46	https://drive.google.com/file/d/1kGcOLWIM0CA28e0JoXJX2sB03zkirNnH/view?usp=drive_link
91	GC-MS Scrutiny of phytoconstituents, invitro evaluation of antihyperglycemic, antiadipogenic activities and cytotoxic effect using 3T3 L1 adipocyte cell line and molecular mechanism ...	S. Radhika and R. Senthikumar	Biochemistry	Asian Journal of Pharmaceutical and Clinical Research	Oct-24	ISSN 9742441	
92	Cardio Metabolic Outcomes of Glimperide with Metformin Combinations Therapy in Diabetes-Associated Cardiovascular Disease	M. Gunasekaran, R. Prakash, R. Senthikumar	Biochemistry	International Journal of Zoological investigations	May-24	ISSN 24543055	
93	A Comparative Study of Metformin and/or Glimperide on Non-Migrant South Indian Middle-Aged Type 2 Diabetes Mellitus Patients	M. Gunasekaran, R. Prakash, R. Senthikumar	Biochemistry	International Journal of Zoological investigations	May-24	ISSN 24543055	

Achievements of Faculty Members ** For the year 2024-25 ** 2 of 3
Details of books and chapters in edited volumes / books published per teacher during the year 2024-25

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	N / I	Year and month of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Link
1	Dr. D. Dhanalakshmi	<i>Palimpsests of the Digital Age: Reconfiguring Contemporary Humanities</i>	Reflection of Anthropocene in Neil Gaiman's <i>Neverwhere</i>				Mar-25	E-ISBN: 979-8-230-91325-2	BDU	AIFEST	
2	Dr. D. Dhanalakshmi	<i>Palimpsests of the Digital Age: Reconfiguring Contemporary Humanities</i>	The Intersection of Cultural Ecology and Eco Criticism in Anjum Hasan's Lunatic in My Head				Mar-25	E-ISBN: 979-8-230-91325-2	BDU	AIFEST	
3	Dr. D. Dhanalakshmi	<i>Palimpsests of the Digital Age: Reconfiguring Contemporary Humanities</i>	A Reconnoiter of Identity in Zadie Smith's <i>Swing Time</i>				Mar-25	E-ISBN: 979-8-230-91325-2	BDU	AIFEST	
4	Dr. D. Dhanalakshmi	Exploring Trauma and Healing Narrative in Indian Literature	Exploring Resilience in Neil Gaiman's <i>Neverwhere</i>					P-ISSN: 2321-788X.	BDU	Shanlax International Journal of Arts, Science and Humanities	
5	Dr. R.Rajeshwari	South Indian History Congress	Hydro - Poltica Dynamics in India : A Case Study of The Cauvery River Dispute	South Indian History Congress	South Indian History Congress	I	15/10/2024	2229 - 3671	TPGASC	UGC CARE Listed Jurnal	
6	Dr. R.Rajeshwari	perspectives on culture themes and approaches aross time and space					2025			lexarcheus Publications, shopian , Jammu and Kashmir	

7	Dr. R.Rajeshwari	modern approaches and critical perspectives in Indian Historiography					2025			lexarcheus Publications, shopian, Jammu and Kashmir	
8	Dr. A. Shanmugam	Start-up Fintech Challenges and Opportunities: India's Economist Development in 21 st Century.(Conference Proceedings Edited)	A study on Challenges of Digital Payment System in India.	Start-up Fintech Challenges and Opportunities: India's Economist Development in 21 st Century.(Conference Proceedings Edited)	ICSSR Sponsored, SreeSaraswathiThyagaraja College, Pollachi, Coimbatore	N	Feb-24	9787-93-6163-729-2		Shanlas Publication	
9	Dr. R. Poorani	New Trends in Agriculture and Agricultural Finance		Chapter 18, Pg. No. 109-126				978-93-95214-79-7		Maya's Publication	
10	Dr. B.Balamurugan	Business Economics						978-93-5577-559-7		Charulatha Publications	
11	Dr. B.Balamurugan	Managerial Economics						978-81-19337-53-8		Shanlas Publication	
12	Dr. B.Balamurugan	Digitalization of The Indian Financial Sector						978-81-19337-00-2		Shanlas Publication	
13	Dr. B.Balamurugan	Modern Marketing Management						978-81-19337-20-0		ShanlasPublication	
14	Dr. B.Balamurugan	Introduction to Company Law						978-93-87865-80-8		Shanlas Publication	
15	Dr. B.Balamurugan	OrganisationalBehaviour						978-93-6260-527-6		Charulatha Publications	
16	Dr. B.Balamurugan	New Trends in Agriculture and Agricultural Finance						978-93-95214-79-7		Maya's Publication	
17	Dr. D.A.V. Clement	New Trends in Agriculture and Agricultural Finance		Chapter 17, Pg. No. 96-108				978-93-95214-79-7		Maya's Publication	
18	Dr.C. PARAMASIVAN	Women Entrepreneurship through PMMY Scheme		Achieving Women Entrepreneurship Through Pradhan Mantri Mudra Yojana Scheme	ICSSR Sponsored "One Day National Seminar on Achieving Women Entrepreneurship Through Pradhan Mantri Mudra Yojana Scheme	N	2025	ISBN: 978-93-6260-000-0		Charulatha Publication	
19	Dr.C. PARAMASIVAN	India Africa Partnership: Achievements and Opportunities towards Sustainable Economic and Business Developments		India – Africa Partnership: Achievements and Opportunities towards Sustainable Economic and Business Development	ICWA sponsored "India – Africa Partnership: Achievements and Opportunities towards Sustainable Economic and Business Development	I	2025	ISBN:978-93-6260-303-6		Charulatha Publication	
20	Dr. G. N. CHITHRA	Marketing Management					Feb-25	ISBN-13: 978-93-6260-008-0	TPGASC	CHARULATHA PUBLICATIONS	
21	Dr.K.Radha	Glimpses into Indian Knowledge System (IKS)	Contribution of Indian Knowledge in Mathematics (Page 253-258)	---	---	---	2025	978-93-94638-51-8	TPGASC	Thanuj International Publishers, Tamilnadu	https://drive.google.com/file/d/12wsXTNxbkZxsFne-q6-3Ula_rg0DZq0/view
22	A. Jasmine Kingsly, Dr.K.Radha	NEP as a Global Model in Globalization of Indian Knowledge	The Transformation of Education by Technology	---	---	---	Feb. 2025	978-81-984694-3-4	TPGASC	AIMAN College of Arts and Science For Women,Trichy-21.	3.4.4b-aiman-kr-24-25.pdf - Google Drive
23	Dr.K.Radha, S. Sriharini	NEP as a Global Model in Globalization of Indian Knowledge	Education for Empowering Future Generations for a Greener World	---	---	---	Feb. 2025	978-81-984694-3-4	TPGASC	AIMAN College of Arts and Science For Women,Trichy-21.	https://drive.google.com/file/d/1redgdxZ56VSviUcvDcfitvtPUVai0yXA/view
24	Dr.A.R.Lavanya	Micro propagation of Medicinal Plant	<i>In vitro</i> Propagation of <i>Oxalis corniculata</i> L.Pp318-337					9789815238303		Bentham Science	

25	Dr.S. Panneer Arokiaraj and V. Kavitha	Computational Intelligence in Machine Learning Lecture Notes in Electrical Engineering , Springer Nature Singapore	Design of an Optimal Path Finding Protocol for WSN Based on Robust Dynamic Clustering Technique and Effectual Relay Selection Process	Computational Intelligence in Machine Learning	Proceedings of the 3rd International Conference ICCIML 2023	I	25/11/2024	1876-1100	NA	Springer Nature	https://doi.org/10.1007/978-981-96-4391-2_4
26	Anita Madona, M and Dr. S. Panner Arokiaraj	Computer Science Engineering	Survey on retinal image processing for the diagnosis of glaucoma using deep learning approaches	NA	Proceedings of the 1st international conference on computing and intelligent information system ICCIIS24	I	20-12-2024	eBook ISBN9781003565024	NA	CRC Press	https://doi.org/10.1201/9781003565024
27	Dr. S. Panneer Arokiaraj and R. Ramya	Machine Learning for Neurodegenerative DisordersAdvancements and Applications	An enhanced technique for predicting autism spectrum disorder using vote and AdaBoost models	NA	NA	NA	31-03-2025	ISBN 9781032660936	NA	Routledge Taylor and Francis Group CRC Press	https://www.routledge.com/Machine-Learning-for-Neurodegenerative-Disorders-Advancements-and-Applications/Paul-Jena-Saxena/p/book/9781032660936?srsltid=AfmBOoplGer56B5SR6S6D_AIOm3RXiHmZzivKQE9ClacIVZ5HTxv6SsX
28	Kalai Selvi K, and Dr.M.Kasthuri	Mastering Deep Learning: From basics to advanced techniques	Full Book	NA	NA	NA	Jul-24	978-93-6492-238-8	NA	SK Research Group of Companies	https://books.google.co.in/books?id=RakXEQAQBAJ&printsec=frontcover#v=onepage&q&f=false
29	S. Benazir Butto & K. Fathima Bibi	The Science Nexus: Pioneering progress across Biotechnology, Chemistry, Computer Science, Physics and Microbiology	Chapter 8: Study on Microarray Technology with Genetic Algorithm Strategy	-	-	-	16.07.2024 -	ISBN: 978-81-19820-35-1	-	-CHYREN Publications 1st Edition	
30	R. Ramesh	Advancements in Computer Science: Bridging AI,Networking, and Emerging Technologies	Chapter 6: Transforming Human Resource Management with AI: Enhancing Recruitment, Performance, and Talent Development	-	-	-	May-25	ISBN: 978-81-984820-1-3	-	Aarambh Quill Publications	

Achievements of Faculty Members ** For the year 2024-25 ** 3 of 3					
Details of Funds / Grants received from non-government bodies, individuals, philanthropists during the year 2024-25 (INR in Lakhs)					
Month and Year	Name of the government funding agencies	Name of the non government funding agencies/ individuals	Purpose of the Grant	Funds/ Grants received (INR in lakhs)	Link to Audited Statement of Accounts reflecting the receipts
2024 – 2025	ICSSR	-	Project	20,00,000	
2024 – 2025	ICWA	-	Seminar	1,20,000	
2024 – 2025	-	IAA	Workshop	10,000	
2024 – 2025	Government	Nil	Science Academic Lecture Workshop	313,000	https://drive.google.com/file/d/11GVal6DcCW7wfZaWALWXSrdxWtng3R0e/view?usp=sharing

(54) Title of the invention : ANTIMICROBIAL PEPTIDE FORMULATION FOR THE INHIBITION OF MULTI-DRUG RESISTANT PATHOGENS

(51) International classification :A61P0031040000, A61K0047340000, A61M0025000000, A61K0047180000, A61K0047020000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 An antimicrobial peptide formulation system (100) comprising: a peptide synthesis unit (102), a formulation unit (104), a stabilization agent (106), a delivery medium (108), an application unit (110), and a pathogen inhibition assessment unit (112). The peptide synthesis unit (102) produces antimicrobial peptides with high specificity against MDR pathogens. The formulation unit (104) combines the peptides with biocompatible carriers for enhanced stability. The stabilization agent (106) prevents peptide degradation and improves shelf life. The delivery medium (108) ensures targeted administration of the antimicrobial peptides. The application unit (110) facilitates the controlled release of the formulation to infected sites. The pathogen inhibition assessment unit (112) evaluates the efficacy of the formulation in real-time. The invention promotes effective inhibition of MDR pathogens while ensuring enhanced peptide stability and delivery.

No. of Pages : 11 No. of Claims : 8

Design Application Details

Application Number:

427344-001

Cbr Number:

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Cbr Date:

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Design Application Status

Application Status:

Application Under Process(wating for Technical Examination)

[Back \(/DesignApplicationStatus/\)](#)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

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