



**P. A. COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**POLLACHI, COIMBATORE - 642 002**  
**An Autonomous Institution**  
Accredited by NAAC with 'A' Grade  
Accredited by NBA (CSE, ECE, EEE & Mech)  
An ISO 9001:2015 Certified Institution



**RESEARCH AND DEVELOPMENT CELL**

**Academic Research – Science and Humanities**

**Supervisors:**

Sl. No.	Name of the Supervisor	Reference No.	Name of the University	Research Area	E-Mail ID	Phone No
1.	Dr.G.Kottur	2470266	Anna University	Chemistry	kotturg@gmail.com	9442482801
2.	Dr.K.Saritha	3570004	Anna University	Mathematics	saritha.sh@pacolleges.org	8248027754

**Faculty Pursuing PhD outside PACET:**

Sl. No.	Department	Name of the Scholar	Reg. No.	Supervisor Details	Research Area	Name of the University
1.	English	R.Malathi		Dr.A.Mohanagiri, Assistant Professor, Government Arts College (Autonomous), Coimbatore	Indian Writing in English	Bharathiar University
2.	Physics	P.Sivarama Prabhu	17147697152	Dr.P.Kathirvel, Assistant Professor, Department of Physics, PSG College of Technology, Coimbatore.	Metal Oxide nanomaterials	Anna University

**Journals:**

Sl. No.	Title of the paper	Name of the journal	International / National	Vol. No. / Issue No./ Page No. / Year	Authors
1.	Policy Analysis of Indian Government in Response to COVID-19 Pandemic Using Topic Model	Bihar Journal of Public Administration	National	Vo.No.18/ 0974-2735/2021	K.Saritha
2.	The Effect of Viscous Dissipation and Thermal Radiation in Siskoferrofluid Flow over a Porous Medium	International Journal of Engineering Research in Africa	International	Vol No.54/118-131/1663-4144/2021	K.Saritha M.Rameshkumar
3.	Global Analysis of COVID-19 Clinical Trials to Reflect Vaccine Progression	Journal of Microbiology and Infectious Diseases	International	Vol.No.10,/No. 04, ISSN : 2146-9369/183-187 2020	K.Saritha
4.	COVID-19 Outbreak: Tweet based Analysis and Visualization towards the Influence of Corona virus in the World	Gedrag & Organisatie	International	Vol. No.33,/No. 2, / 534-549/0921-5077/2020	K.Saritha
5.	Statistical Analysis and Visualization of the Potential Cases of Pandemic Corona virus	Virus Disease, Springer	International	Vol. 31/No. 2/ 204-208 /2347-3584 /2020.	K.Saritha
6.	Mass transfer phenomena of MHD nanofluid with chemical reaction with base fluids water and kerosene	Malaya Journal of Mathematik	International	8(2), (2020), 688-673	K.Saritha T. Gandhimathi M.Rameshkumar,
7.	Application of Intuitionistic Fuzzy Soft Matrix Using Revised Min-Max Average Composition Method	Alochana Chakra Journal	International	9(4), 3987-3993,2020	T. Gandhimathi M.Rameshkumar K. Saritha
8.	MHD viscous Nanofluid flow with base fluids' water and kerosene in the presence of a temperature gradient dependent heat sink with prescribed heat flux	Latin American Applied Research	International	vol. 48, no. 2, pp. 139-144, ISSN:0327-0793, 2018	K.Saritha

9.	MHD viscous Casson fluid flow in the presence of a temperature gradient dependent heat sink with prescribed heat and mass flux	Frontiers in Heat and Mass Transfer	International	vol. 10, no. 1, ISSN: 2151-8629, 2018	K.Saritha
10.	Casson nanofluid flow over an accelerating porous surface with dissipation, radiation and chemical reaction in the presence of a temperature gradient heat sink	Asian Journal of Research in Social Sciences and Humanities	International	vol. 7, no. 1, pp. 813-830, ISSN: 2249-7315, 2017	K.Saritha
11.	Casson nanofluid flow over a linearly stretching permeable surface with dissipation, radiation and chemical reaction in the presence of a heat sink	Journal of Computational and Theoretical Nanoscience	International	vol. 14, no. 7, pp. 3260–3271, ISSN:1546-1955, 2017	K.Saritha
12.	Heat and mass transfer of a Casson nanofluid flow over a porous surface with dissipation, radiation and chemical reaction	IEEE Transactions on Nanotechnology	International	vol. 16, no. 6, pp. 909-918, ISSN: 1941-0085, 2017	K.Saritha
13.	Some Inequalities of Intuitionistic Fuzzy Matrices	Advances in Mathematics: Scientific Journal	International	9 (2020), No.11, 9005–9008,2020	T.Gandhimathi
14.	A Study on Intuitionistic Fuzzy Soft Matrices in Diagnosis	Aegaeum Journal	International	8(5),257-262,2020	T.Gandhimathi
15.	Intuitionistic Fuzzy Matrix in Medicine	Journal of Applied Science and Computations	International	6(2),1693-1700,2019	T.Gandhimathi
16.	Decomposition of Regular block intuitionistic fuzzy matrices	TAHA Journal of Graphic Technology	International	14(1),1645-1652,2018	T.Gandhimathi
17.	Application of Intuitionistic Fuzzy Soft Matrix Theory	TAHA Journal of Graphic Technology	International	14(1),389-396,2018	T.Gandhimathi
18.	An Application of Intuitionistic Fuzzy Soft Matrix in Decision Making Problem	International Journal of Trend in Research and Development	International	5(1),119-123	T.Gandhimathi
19.	An Application of Intuitionistic Fuzzy Soft Matrix in Medical Diagnosis	Journal of Computational and Theoretical Nanoscience	International	15(4), 1-4,2018	T.Gandhimathi
20.	Toeplitz intuitionistic fuzzy matrices	Journal of Basic and Applied	International	22(2),81-85,2017	T.Gandhimathi

		Research International			
21.	On Regularity of Block Intuitionistic Fuzzy Matrices	Asian Journal of Mathematics and Computer Research	International	16(4),178-184,2017	T.Gandhimathi
22.	Application of intuitionistic fuzzy matrix in document retrieval Systems	International Journal of Pure and Applied Science and Agriculture,	International	5, 138-145,2016	T.Gandhimathi
23.	Isomorphism and Anti-isomorphism in Interval Valued of Q-Fuzzy Subhemirings of a Hemi ring	Asian Journal of Information Technology	International	16(14),2343-2346,2016	T.Gandhimathi
24	A study on the causes for lapsation of life insurance Policies using combined overlap block fuzzy Cognitive maps	International Journal of Current Trends in Engineering & Research	International	2(4), 162 –169	T.Gandhimathi
25.	Cartesian Product Representation of Intuitionistic Fuzzy Matrices	International Journal of Applied Engineering Research	International	10(11),28945-28954,2015	T.Gandhimathi
26.	Pseudo Similar Intuitionistic Fuzzy Matrices	Applied and Computational Mathematics,	International	4(2),15-19,2015	T.Gandhimathi
27.	Standard basis of Intuitionistic Fuzzy Vector Spaces	Intern. J. Fuzzy Mathematical Archive	International	1(1), 2320 – 3250,2013	T.Gandhimathi
28.	Some new sets and its decompositions of continuity	Caribbean Journal of Science	International	53(2), (2019), 2387-2401	M. Rameshkumar
29.	On $\varphi$ - $I_s$ -open sets and $\varphi$ - $I_s$ -continuous Functions	International Journal of Pure and Applied Mathematics	International	120(6), (2018), 7621-7630	M. Rameshkumar
30.	$g^*$ -closed sets in intuitionistic fuzzy topological spaces	Int. J. Business Intelligence and Data Mining	International	16(4), (2020), 445-458.	T. Gandhimathi M. Rameshkumar
31.	Characterization of rarely continuous Multifunction in Ideal topological Spaces	International Journal of advanced Research Trends in Engineering and Technology	International	5(12), (2018), 970-972.	M. Rameshkumar
32.	fIs and Regular-Is-closed sets in Ideal topological Spaces	International Journal of Pure and Applied Mathematics	International	113(13), (2017), 163-171.	M. Rameshkumar

33.	Strong $B$ -set and another decomposition of continuity	Global Journal of Pure and Applied Mathematics	International	13(7), (2017), 2793-2801.	M. Rameshkumar
34.	On $\Leftrightarrow$ -Is-open sets and $\Leftrightarrow$ -Is-continuous functions	J. Math. Comput. Sci.	International	5(5), (2015), 615-625.	M. Rameshkumar
35..	On $\pi gI$ -Continuous Functions on ideal topological spaces	Scientific studies and research series mathematics and informatics	International	25(1), 2015, 225-236.	M. Rameshkumar
36.	On $\pi gI$ -closed sets in ideal topological spaces	International journal of computer Applications	International	94(5), 2014, 7-11.	M. Rameshkumar
37.	On pre- $I_s$ -open sets and pre- $I_s$ -continuous functions	Malaya Journal of Matematik	International	2(3), 2014, 315-321.	M. Rameshkumar
38.	A Decomposition of continuity in ideal by using semi local functions	Asian journal of Mathematics and Applications	International	2014, 2014,1-11.	M. Rameshkumar
39.	On Semi- $I_s$ -open Sets and semi- $I_s$ -continuous Functions	IOSR Journal of Mathematics	International	7(5), 2013, 38-42.	M. Rameshkumar
40.	Intuitionistic Fuzzy $g^*$ - Continuous Mapping and Intuitionistic $g^*$ -irresolute Mappings	International journal of Fuzzy Mathematics and Systems	International	3(2), 2013, 165-178.	M. Rameshkumar
41.	On Rarely $g_p$ -continuous Multifunctions	International journal of Mathematical archive	International	3(3), 2012, 1029-1031.	M. Rameshkumar
42.	On $\blacktriangledown$ -generalized closed sets in Bitopological spaces	Journal of Advanced Studies in Topology	International	3(4), 2012, 82-86.	M. Rameshkumar
43.	Knowledge Graph Embedding via the Properties of Mapping and Dynamic Matrix	Indian Journal of Science and Technology	International	14(11) ,942-955,2021	A.Sangeetha Devi
44.	Enhanced Graph Theoretic Modeling for Estimating Node Localization and Reachability in WSN	International Journal of Advanced Science and Technology	International	29(03),12098 - 12108 ,2020	A.Sangeetha Devi
45.	Aspects for the Web Future: Semantic Web Applications and Ontology Language for World Wide Web	International Journal of Advanced Research Trends in Engineering	International	5(12),889-892,2018	A.Sangeetha Devi

		and Technology			
46.	Applications of 2-Dominator Coloring in Barbell Graphs, Bow Graphs and 1-Subdivided Star Graphs	International Society for Research in Computer Science	International	1(1),1-3,2016	A.Sangeetha Devi
47.	Efficient Open Dominator Coloring in Cycles and Paths	Asian Journal of Research in Social Sciences and Humanities	International	7(3),544-556,2017	A.Sangeetha Devi
48.	2-Dominator Coloring for Various Graphs in Graph Theory	International Journal of Science and Research	International	3(1),1414-1416,2016.	A. Sangeetha Devi
49.	Efficient Dominator Coloring In Graphs	International Journal of Mathematics and Computer Applications Research	International	6(3),1-8,2016	A.Sangeetha Devi
50.	Application of 2-Dominator Coloring in Graphs Using MATLAB	Journal of Computer and Mathematical Sciences (An International Research Journal)	International	7(4),168- 174,2016	A.Sangeetha Devi
51.	2-Dominator Coloring In Graphs	International Journal of Applied Engineering Research	International	10(22),43059-43062,2015.	A.Sangeetha Devi
52.	On Dominator Coloring in Circulant Graph	CiiT International Journal of Automation and Autonomous System	International	7(7),179-180,2015	A.Sangeetha Devi
53.	Establishment a forward aware factor aware factor to the network system to achieve high throughput	International Journal of Mathematical Archive	International	5(12),178-184, 2014	A.Sangeetha Devi
54.	Effect of manufacturing Techniques on individual flavanols and flavour profiles in CTC black tea under south Indian conditions.	International Journal of Advanced Research Trends in Engineering and Technology (IJARTET)	International	Vol.5 (12): 389-399.	G. Kottur
55.	Microwave Tomography and Medical Applications	Journal of Xidian University	International	Volume 15, Issue 1, Page No.316–334,	Ramya K

	– A Precursor			Jan 2021	
56.	A Precursor on Pandemic Corona Virus: An Infectious Disease	Asian Journal of Applied Sciences	International	Volume 8, Issue 3, Page No.178-181 June 2020	Ramya K
57.	Insecticidal Poisoning in human visceral organs	Journal of Biology and Medical Research	International	Vol 2, Issue 2, Page No. 1-4, June 2018	Ramya K
58.	Kinetics Of Oxidation Of Hexakis(P-Bromo Aniline) Zinc(II) Chloride By Potassium Iodate In Aqueous Medium	International Journal of Advanced Research Trends in Engineering and Technology	International	Vol.5, Issue 12, Page No. 885-890, April 2018	Ramya K
59.	Chemical kinetics of oxidation of hexakis(o-chloro aniline) copper (II) bromide by potassium bromate in aqueous medium	International Journal of Advanced Research Trends in Engineering and Technology	International	Vol.5,Special Issue 12, Page No. 432-436, April 2018	Ramya K
60.	Synthesis of pure and Cr doped Zinc Sulfide nanoparticles for charge transport layers applications	Materials Today: Proceedings	International	5 (8), 16466-16471, 2018	P.Sivarama Prabhu
61.	Improving Legal Terminology of Second Year Law Students through a Draft Syllabus	Jour of Adv Research in Dynamic & Control Systems	International	Vol.10,No.10,2018 ISSN 1943-023X	S.Sathiyaseelan R. Karthick
62.	“English for Specific Purposes as a Tool to Enhance the Maritime Terms for First Year Students”	Language in India UGC Approved List of Journals Serial Number 49042	International	ISSN 1930-2940 Vol. 19:3 March 2019	S.Sathiyaseelan R. Karthick
63.	Historiographic Metafiction: An Experimentation of Margret Atwood’s Aliace Grace and The Blind Assassin”	New Academic: An International Journal of English Language and Literary Theory	International	ISSN2347-2073 44829 Special Journal Feb.2019	S.Sathiyaseelan R. Karthick
64.	“Changing the Face”- Representation of Women in Manju Kapur’s Difficult Daughters and A Married Woman	Alochana Chakra Journal	International	Vol.No.9, Issue 6 Page Nos.130-135/June 2020	R.Malathi

65.	Womanism in Shashi Deshpande's The Dark Holds No Terror	IJARESM	International	Vol.No.8,Issue 12,Page Nos. 724-726/December 2020	R.Malathi
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**National / International Conference organized:**

Sl. No.	Department	Name of the Conference	National / International	Date	Sponsoring Agency
1.	Mathematics	Modern Mathematical Methods and High Performance Computing in Manufacturing and Industrial Engineering Systems	National	24.01.2018 & 25.01.2018	CSIR
2.	Mathematics	Advanced Mathematical Modeling and Optimization Techniques for Scientific Inventive Research Development	National	21.01.2019 & 22.01.2019	CSIR
3.	Physics	Advanced Mathematical Modeling and Optimization Techniques for Scientific Inventive Research	National	21.01.2019 & 22 .01.2019	CSIR
4.	Physics	Recent Research in Simulation of Crystal growth and its device application in industrial world	National	04.04.2021 & 05.04.2021	CSIR