

## FACULTY PROFILE



**Name:** Dr. P.K.SANTHI

**Designation :** ASSOCIATE PROFESSOR

**Department:** MATHEMATICS

**College Name:** Jayaraj Annapackiam College for Women  
(Autonomous), Periyakulam, Theni(D.t)

### **Academic:**

S.No	Degree	University/Institution	Year of completion
1.	B.Sc.,	KandaswamyKandar's College, P.Velur, Namakkal.	Apr.1998
2.	M.sc	KandaswamyKandar's College, P.Velur,Namakkal.	May-2000
3.	M.Phil.,	Madurai Kamaraj University, Madurai	May-2002
4.	P.G.D.C.A	Pondicherry University, Pondicherry.	Apr-2001
5.	SET	Mother Teresa University, Kodaikkanal.	April -2017
6.	Ph.D	Madurai KamarajUniversity, Madurai.	October-2020
7.	M.sc(Psychology)	Madurai KamarajUniversity, Madurai.	April-2020

**Teaching Experience** : UG : **23** Yrs , PG : **23** Yrs

**Area of Specialization** : Stochastic Process

### **Membership in Academic Bodies :**

- Member of the UGC Capacity Building of Women Managers in Higher Education.
- Member of the Council of Psychotherapy & Counselling.

- Member of the Editorial Board of Glacier Journal of Scientific Research, Ahmedabad.( ISSN: 2349-8498, Impact Factor : 2.7614.
- Reviewer for the TWMS Journal of Applied and Engineering Mathematics.

**Patent Title:** Scalable Multi Sensor Networking Protocol (SMNP) To Interface upcoming Internet of Everything (IOE) Devices, **Patent ID-**202141035033, **Patent Type-** Indian. 13<sup>th</sup> August 2021.

**Patent Title:** Artificial Intelligence based Smart Computing On-Board ECU for Predicting Vehicle Parts Reliability and Failure **Patent ID-**2021107427, **Patent Type-** Australian Patent, 8<sup>th</sup> December 2021.

**. Details of Seminar / Workshop Conducted :**

- Organizing Secretary of the Workshop on “**Techniques of Teaching Mathematics for Visually Impaired**” organised by Research Centre Department of Mathematics, JayarajAnnapackiam College for Women(Autonomous), Periyakulam on4<sup>th</sup> August 2015.
- Convenor of the National Conference on “**Application Of Mathematics In Real Life**” **AMRL- 2019**) organized by Research Centre & PG Department of Mathematics at Jayaraj Annapackiam College For Women(Autonomous), Periyakulam, on 17<sup>th</sup>, December 2019.
- Organizing Secretary of the JACMAT FEST-2022 - Intercollegiate meet organized by Research Centre & PG Department of Mathematics at Jayaraj Annapackiam College For Women(Autonomous), Periyakulam, on 12<sup>th</sup> April, 2022.
- Organizing Secretary of the National Webinar on **Emerging Trends in Application of Mathematics** organized by the PG and Research Department of Mathematics in collaboration with Annai Vailankanni Arts and Science College, Thanjavur, on 27<sup>th</sup> October, 2022.
- Organizing Coordinator of the largest event World Record Bharatha Natiyam dance conducted by Cumbum Sathguru Sangeetha Natya Vidyalaya through World Records Union (America) on 7<sup>th</sup> January, 2024.

**Details of Orientation/ Refresher Course/Short term course / FDP Attended : 36**

Year	Institution and Place	Duration	Nature of the Course

2015	UGC-Human Resource Development Centre(HRDC), Bharathiar University, Coimbatore.	<b>06.05.2015- 02.06.2015</b>	Orientation Programme
2016	UGC-Human Resource Development Centre(HRDC), Pondicherry University, Pondicherry.	<b>07.09.2016- 27.09.2016</b>	Refresher Course in Mathematics
2018	UGC-Human Resource Development Centre(HRDC),Madurai Kamaraj University, Madurai.	<b>09.03.2018-29.03.2018</b>	Refresher Course in <b>Environmental Studies(MD)</b>
2019	Anugraha , Capuchin Institute of Counselling, Psychotherapy and Research,Dindigul.	<b>29.04.2019-25.05.2019</b>	Training Programme in <b>Counselling and Psychotherapy</b>
2020	Vellalar College For Women (Autonomous) in January 2020 semester offered by by the Spoken Tutorial Project, IIT , Bombay, funded by National Mission on Education through ICT, MHRD, Govt.of.India	<b>23.04.2020-29.04.2020</b>	<b>Python 3.4.3 &amp; Latex through Moocs</b>
2020	Universal Teachers Academy, Puducherry, India.	<b>21.04.2020 – 30.04.2020</b>	10 Days Online <b>Workshop for Teachers</b>
2020	Jayaraj Annapackiam College for Women(Autonomous),Periyakulam, Theni(D.t)	<b>27.04.2020 – 02.05.2020</b>	<b>National Level FDP on “Effective usage of ICT Tools for E-Content Preparation”</b>

2020	Sri GVG Visalakshmi College for women,Utmalapet.	<b>03.05.2020-09.05.2020</b>	FDP on Webinar Series
2020	Bharat Institute of Science and Technology	<b>11.05.2020- 15.05.2020</b>	Five days online FDP on “ <b>Evolution of Teaching Learning Process-Post Covid 19</b> ”
2020	Universal Teachers Academy, Puducherry	<b>14.05.2020-18.05.2020</b>	5 Days <b>Online Workshop for Teachers</b>
2020	Ramrao Adik Institute of Technology, Mumbai.	<b>18.05.2020-22.05.2020</b>	Short term Training Programme on <b>MATLAB based Teaching Learning in Mathematics,Science &amp; Engineering</b>
2020	Teaching Learning Centre, Ramanujan College, New Delhi(MHRD-PMMMNMTT	<b>18.05.2020-03.06.2020</b>	Two Weeks FDP on <b>Managing Online Classes and Co-Creating MOOCS:2.0</b>
2020	GHG Khalsa College of Education, Gurusar Sadhar, Punjab (India)	<b>22.05.2020-18.06.2020</b>	Four Week online <b>mookit course on Cooperative Learning Pedagogy</b>
2020	Jayaraj Annapackiam College for Women (Autonomous), Periyakulam	<b>22.05.2020-29.05.2020</b>	National level FDP on <b>Outcome Based Education</b>

2020	The Standard Fireworks Rajaratnam College for Women, Sivakasi	<b>25.05.2020-29.05.2020</b>	CSIR-NET Preparation Tools and Techniques
2020	Bon Secours College for Women, Thanjavur	<b>25.05.2020-27.05.2020</b>	3 Days online FDP on “ <b>Research Methods and Writing Skills in Mathematical Sciences</b> ”
2020	N.K.T National College of Education for Women(A),Chennai	<b>26.05.2020-30.05.2020</b>	Online International FDP on “ <b>Establishing Research Beyond The Horizon</b> ”
2020	C.Abdul Hakeem College(Autonomous), Melvisharam,Ranipet(D.t)	<b>28.05.2020-30.05.2020</b>	FDP on Online <b>Teaching via Google LMS during Covid-19 Pandemic</b>
2020	The American College, Madurai	<b>28.05.2020-30.05.2020</b>	Online Workshop on “ <b>Data Analysis using SPSS</b> ”
2020	Loyola College(Autonomous) , Chennai	<b>08.06.2020-13.06.2020</b>	Online Workshop on Mathematical Analysis (MATANA 2020)
2020	Arul Anandar College,Karumathur	<b>15.07.2020-17.07.2020</b>	Online FDP on <b>Appraisal of Mathematical Learning Outcomes in Cybergogy Environment</b>

2020	Sri Ramakrishna College of Arts & science, Coimbatore	<b>15.07.2020-21.07.2020</b>	<b>STTP on Implementation of Outcome Based Education to Enhance the Quality of HEIs</b>
2020	Karunya Institute of Technology and Sciences, Coimbatore	<b>20.07.2020-24.07.2020</b>	FDP on <b>Applications of Mathematics</b>
2020	Poioneer Kumaraswamy College,Nagercoil	<b>27.07.2020-04.08.2020</b>	Online Certificate Course on Soft Skills
2020	Arul Anandar College,Karumathur	<b>27.07.2020-29.07.2020</b>	STTP on <b>MATLAB and MATHEMATICA for Scientific Research</b>
2020	Saranathan College of Engineering, Chennai	<b>26.07.2020-30.07.2020</b>	FDP on Emerging <b>Trends of Mathematics in Multidisciplinary Domain</b>
2020	Institute of Science and Centre for learning & Sustainability, GITAM, Visshapatnam,Andhra Pradesh.	<b>03.08.2020-08.08.2020</b>	One Week online international Faculty Development Programme on <b>Recent Advances in Mathematics &amp; Statistatics(IFDPRA MS-2020)</b>
2020	Keshav Memorial Institute of Commerce and Sciences,Hyderabad & ICSSR-SRC, MHRD,NewDelhi	<b>03.08.2020-09.08.2020</b>	Seven Day FDP on <b>The Role of Teacher in Nation Building</b>

2020	St.Aloysius College centre for PG studies, Bangalore	<b>13.08.2020-14.08.2020</b>	National Virtual FDP on <b>Building Teachers' Competency through Sensitizing E-Resources</b>
2020	KPR Institute of Engineering and Technology, Coimbatore	<b>25.08.2020-28.08.2020</b>	Four Day FDP on <b>Applications of Mathematics in Engineering</b>
2020	UGC Human Resource Development Centre, Aligarh Muslim University, Aligarh.	<b>24.09.2020-30.09.2020</b>	Short Term Course on <b>Value Based Education</b>
2020	S.V.U College of Sciences, S.V.University, Tirupati	<b>02.11.2020-11.12.2020</b>	Six Days Virtual <b>"Science Academies'</b> lecture workshop on Linear Transformations, Matrices and their Applications-2020"(SALWLTMTA-2020)
2020	UGC-Human Resource Development Centre(HRDC), Bharathiar University, Coimbatore	<b>18.11.2020 - 01.12.2020</b>	Refresher Course in Mathematics & Statistics
2021	Human Resource Development Centre(HRDC) and Internal Quality Assurance Cell(IQAC) of Academy of Maritime Education and Training(AMET) Deemed to be University, Kanathur, Chennai, Tamilnadu.	<b>24.05.2021-06.06.2021</b>	Two weeks online FDP on Pedagogy and Research Methods

2023	PG and Research Department of Mathematics, Sacred Heart College (Autonomous), Tirupattur from 1 <sup>st</sup> June 2023 to 10 <sup>th</sup> June 2023.	<b>01.05.2023-10.05.2023</b>	Summer Internship Programme on Mathematics and its Applications
2024	DST-CURIE-AI center of Sri Padmavati Mahila Visvavidyalam(SPMVV University), Tirupati.	<b>18.03.2024-23.03.2024</b>	One week national level online FDP on Outcome Based Education and Application of Generative AI in Teaching and Research

**Professional Affiliation:**

- NSS Programme Officer (2007-2009)
- Member of Fine Arts Club(2010-2011)
- Member of Gandhian thought studies (2010-2013)
- Member of Entrepreneur Cell(2013-2015)
- Member of Extension(JACEP) Service(2011-2013)
- Member of Placement Cell(2012-2013)
- Member of Magazine Committee(2009-2010,2018-2019)
- Member of Discipline Committee(2006-2010,2013)
- Member of Physical Education (2011-2013)
- NCC Staff In charge (2013-2015)
- Coordinator of Karate Club(2015-2018)
- Coordinator of Alumni Association (2013-2015,2018-2019)
- Member of Internal Quality Assurance Cell(IQAC)(2015-2020)
- Member of Counselling Committee (2019-till date)
- Member of Women Cell (2020-2021)



- Member of Youth Welfare and JACSAFA(2020-2021)
- NSS Programme Officer (2021-2022)
- Fine Arts Coordinator (2022-till date)
- Member of Minority Cell (2023-till date)

**Research Publications : 15**

**International Publications : 12**

- Published a paper on “ **Role of M-Learning in Higher Education**” in New Frontiers in Education -International Journal of Education and Research, pg ,No: 21-24, ISSN :0972-1231, Vol.49, No.1, January-March, 2016.
- Published a Paper entitled “**Perishable Inventory Control in Supply Chain : A Semi-MDP Model**” in the International Journal of Computational and Applied Mathematics, Volume 12, Number 1 (2017), ISSN No. :1819-4966.
- Published a paper on the topic “**Empowering Women through self-help groups** ”in the International Journal of New Frontiers in Education(April-June 2017) Vol.50, No2 ISSN:0972-123.
- Published a paper on “**Optimal Inventory Control with Partial Backlogging in Supply Chain: MDP Approach** ” in the International Journal of Research in Information Technology, Vol.2, Issue2, Feb 2018, Pg 30-31, ISSN(online):2001-5569.
- Published a paper on “**Optimal Inventory Control For Perishable Inventory with partial Backlogging in a Supply Chain: Markov Decision Process** ”in the International Journal of Fuzzy Mathematical Archive , Vol.15, No.2, 2018, 30<sup>th</sup> April 2018, PP No : 167-176, ISSN: 2320-3242(P), 2320-3250(online).
- Published a paper on “**MDP in Supply Chain: Optimal Inventory Control System** ”in the International Journal of Engineering Science Invention (IJESI), ISSN(online):2319-6734, ISSN (print) : 2319-6726, Vol.7, Issue 8, Version II, 22<sup>nd</sup> August 2018, PP No : 55-62, Impact Factor:5.962, UGC(Approved).
- Published a paper on “**Stochastic Interview Control System with (s,S) Ordering Policy, Replenishment In a Supply Chain: MDP Model**” in JAC Journal of Science , Humanities and Management , Vol.6.No.2, June 2019, ISSN: 2347-9868. pp No:12-28

- Published a paper on **Eduthogaium Ezhilmigu Kanithamum** in Journal of Modern Thamizh Research, Spl issue, Vol 4, Sep 2021, ISSN: 2321-984X, pp: 882-887, UGC(Approved).
- Published a paper on **Inverse Dominating Set** in International Journal of Neutrosophic Science (IJNS.180309), Vol. 18, No. 3, PP.104-110, 2022, Scopus.
- Published a paper on **Equitable Domination in Neutrosophic Graphs** in Journal of Neutrosophic and Fuzzy Systems (JNFS.0202205), Vol. 2, No. 2, PP.57-61, 2022.
- Published a paper on **Neutrosophic Fuzzy lattice via Fuzzy Partial Ordering** in International Journal of Neutrosophic Science (IJNS.210105), Vol. 21, No. 01, PP.64-68, 2023, Scopus.
- Published a paper on **Solving Neutrosophic Fuzzy Transportation Problem Of Type-II** in the Journal of Neutrosophic Sets and Systems, Vol 61, PP. 523-533, 2023.

### National Publications : **3**

- Published a paper on “ **Role of Mobile Technology in Higher Education**” in the proceedings of National Conference on “**Academic Audit and Quality Enhancement in HEIs**” pg, No: 68-73 ISBN : 978-93-85977-02-2.
- Published a Paper entitled on “**Challenges of Applying Markov Decision Process to Wireless Sensor Networks**”, JAC Journal of Science, Humanities and Management at National level , Vol.3, No.2-June 2016, ISSN No.2347-9868.
- Published a paper on “**MDP in supply chain: Inventory system with service facility at retail node with impatient customer**” in Journal of Management Science and Humanities, Vol.4(2), 132-144 (2017), December 2017, ISSN No:2395 -0625.

### No. Research Papers Presented: **17**

S. No	Year	Title of the Paper	Name of the seminar	Place and Date	Level

1.	2008	m-Structures in Bitopological spaces	Recent Trends in Mathematical Modelling	JayarajAnnapackiam College for women (Autonomous), Periyakulam on 17 <sup>th</sup> & 18 <sup>th</sup> March 2008	National
2.	2015	The Protection of Against Domestic Violence in India	Sustainable Development And the Role of Women in Nation Building	JayarajAnnapackiam College for women (Autonomous), Periyakulam on 11 <sup>th</sup> & 12 <sup>th</sup> Feb. 2015	National
3.	2015	Markov Property of Geometric Brownian Motion to Model the stock Price	Emerging Trends in Mathematics	Fatima College (Autonomous), Madurai on 22 <sup>nd</sup> December 2015	National
4.	2016	Role of Mobile Technology in Higher Education	Academic Audit and Quality Enhancement in HEIs	Arul Anandar College, Karumathur on 22 <sup>nd</sup> & 23 <sup>rd</sup> March 2016	National
5.	2016	Mobile Learning – An Effective Tool for ICT Enabled Teaching	Quality Assurance and Quality Sustenance in Higher Educational Institutions: Challenges and Solutions	JayarajAnnapackiam College for Women, (Autonomous), Periyakulam on 29 <sup>th</sup> & 30 <sup>th</sup> September, 2016	National
6.	2016	An overview of Mobile Marketing	New Trends in Marketing in the Digital Era	JayarajAnnapackiam College for Women, (Autonomous), Periyakulam on 1 <sup>st</sup> December, 2016	National
7.	2016	Homomorphism in	Topological Graph	JayarajAnnapackiam	National

		Fuzzy L - ideals	Theory	College for Women, (Autonomous), Periyakulam on 19 <sup>th</sup> December, 2016.	
8.	2017	Women Empowerment through Self-help groups	Strategies for Women Empowerment	V.V. Vanniaperumal College for Women (Autonomous), Virud hunagar on 19 <sup>th</sup> and 20 <sup>th</sup> January, 2017	National
9.	2017	MDP in Supply Chain Inventory Control System	Mathematical Modeling and Computational Methods in Science and Engineering (ICMMCMSE- 2017)	Alagappa University, Karaikudi, from 20 <sup>th</sup> to 22 <sup>nd</sup> February, 2017	International
11.	2017	Perishable Inventory Control System in Supply Chain: A semi-MDP Model	Mathematical Modelling(NCOM M-2017)	Cardamom Planter's Association College, Bodinayakanur on March 30 <sup>th</sup> -31 <sup>st</sup> , 2017	National
12.	2017	MDP in supply chain Inventory system with service facility at retail node with impatient customers	Recent Advancements in Pure and Applied Mathematics	NadarSaraswathi College of Arts and Science, Vadaputhupatti from 26 <sup>th</sup> to 27 <sup>th</sup> July 2017	National
13.	2017	Inventory Control in a Service Facility System in Supply Chain: Semi Markov Decision Process	Recent Trends in Applied Mathematics	JayarajAnnapackiam College for Women(Autonomous , Periyakulam on 13 <sup>th</sup> December, 2017	National

14.	2018	Optimal Control for Perishable inventory with Partial Backlogging in a Supply Chain: MDP approach	Algebra and Applied Mathematics	Hajee Karutha Rowther Howdia College, Uthamapalayam, Theni D.t on 11 <sup>th</sup> January, 2018	International
15.	2018	Optimal Inventory Control with Partial Backlogging in a Supply Chain: Markov Decision Process	Recent Trends in Stochastic Modeling and its Applications (ICRTSMA 2018)).	Department of Statistics. ,Manonmaniam Sundaranar University, Tirunelveli, on 8 <sup>th</sup> - 9 <sup>th</sup> , January, 2018.	International
16.	2018	Optimal Control of Supply Chain with Service Facility having Impatient Customers	International Conference on “Emerging Trends in Mathematical Sciences and Technology” (ICETMST 2018)	JayarajAnnapackiam College For women(Autonomous) , Periyakulam, on 20 <sup>th</sup> and 21 <sup>st</sup> , December 2018	International
17.	2022	Methods of Research in Mathematics Education	Innovative Research Methodology cum Researcher Meet	Puducherry Academic Researcher Academy, Puducherry. 29 <sup>th</sup> January 2022	National

**Seminars / Conferences / Work Shops Participated : 97**

1. Participated the National Conference on “ **Recent Trends in Understanding and Applying the Theory and Practice of Values**” at JayarajAnnapackiam College for Women(Autonomous), Periyakulam on 11<sup>th</sup> -12<sup>th</sup> January 2007.

2. Participated the National Seminar on “ **Participative And Responsive Organizational Dynamics For Quality Improvement in Autonomous Colleges**” at JayarajAnnapackiam College for Women(Autonomous), Periyakulam on 19<sup>th</sup> -20<sup>th</sup> December 2007.
3. Participated the National Seminar on “ **Recent Trends in Mathematical Modelling** ”organised by the Department of Mathematics, JayarajAnnapackiam College for Women(Autonomous), Periyakulam on 17<sup>th</sup> -18<sup>th</sup> March 2008.
4. Participated a one day State level seminar on “ **Christian Values for Wholesome Life**” at JayarajAnnapackiam College for Women(Autonomous), Periyakulam on 29<sup>th</sup> August 2008.
5. Participated the National Seminar on “ **Recent Trends in Mathematical Modelling** ”organised by Department of Mathematics, JayarajAnnapackiam College for Women(Autonomous), Periyakulam from 17<sup>th</sup>-18<sup>th</sup> April 2008.
6. Participated the National Seminar on “ **Quality And Relevance in Higher Education- New Challenges** “, JayarajAnnapackiam College for Women(Autonomous), Periyakulam from 2nd-3rd March 2009.
7. Participated the National Conference on “ **Value Education** ”organised by National Biblical Catechetical & Liturgical Centre(NBCLC), Bangalore from 4<sup>th</sup> - 9<sup>th</sup> May 2010.
8. Participated the Workshop on “ **Writing and Transforming Course Materials into Self Learning Material(SLM)** ”at Mother Teresa Women’s University, Kodaikanal from 4<sup>th</sup> – 5<sup>th</sup> September 2010.
9. Participated the Workshop on “ **Higher Education in a Changing Environment** “ at JayarajAnnapackiam College for Women(Autonomous), Periyakulam from 26<sup>th</sup>- 27<sup>th</sup> November 2010.
10. Participated the National Seminar on “ **Inculcation of Values for Holistic Life Amidst Technological Scenario** ”JayarajAnnapackiam College for Women(Autonomous), Periyakulam from 6<sup>th</sup>- 7<sup>th</sup> December 2010.
11. Participated the National Seminar on “ **Human Rights** “ at JayarajAnnapackiam College for Women(Autonomous), Periyakulam from 9<sup>th</sup>-10<sup>th</sup> December 2010.
12. Participated the State Level seminar on “**Recent Trends in Applied Mathematics**” at JayarajAnnapackiam College For Women, Periyakulam on 11<sup>th</sup> February 2011.
13. Participated the National Level seminar on “**Human Rights**“ at JayarajAnnapackiam College For Women, Periyakulam on 20<sup>th</sup>-21<sup>st</sup> December 2011
14. Participated the Two days National Level workshop on“**Young Lectures of Christian colleges in India Towards developing Foundational Leadership**” at Arul AnandarCollege,Karumathur on 1<sup>st</sup> – 2<sup>nd</sup> June 2012

15. Participated the State Level on”**Recent Trends in Advanced Mathematics** “JayarajAnnapackiam College for Women(Autonomous), Periyakulam on 7<sup>th</sup> December 2012.
16. Participated the National seminar on“ **Applicable Mathematics**” at JayarajAnnapackiam College For Women, Periyakulam on 21<sup>st</sup> December 2012.
17. Participated the Five days Residential National Level workshop on “**Capacity Building of Women Managers in Higher Education, Sensitivity/Awareness/Motivation**” at Madurai Kamaraj University on 18<sup>th</sup>-22<sup>nd</sup> February 2013.
18. Participated the State Level Workshop on “**Counsellor Training Course**” organised by Anugraha Institute of Counselling at JayarajAnnapackiam College for Women(Autonomous), Periyakulam from 5<sup>th</sup>-10<sup>th</sup> June 2013.
19. Participated the International Conference on “**Mathematics in Information Technology**” organised by PG Department of Mathematics& Computer Science, JayarajAnnapackiam College for Women(Autonomous), Periyakulam on 21<sup>st</sup>August 2013.
20. Participated theNational Conference on “**Theoretical Advances in Differential Equations and Applications(TADEA-2013)**” at Madurai Kamaraj University, Madurai on August 23<sup>rd</sup> 2013.
21. Participated theNational Level “**Faculty Training Programme in Entrepreneurship**” organised by Department of Economics, Mother Teresa Women’s University, Kodaikanal from 3<sup>rd</sup>– 7<sup>th</sup> September 2013.
22. Participated the State Workshop on “**Reforms in Curriculum Development and Examination System** “organised by Curriculum Development Cell,JayarajAnnapackiam College for Women(Autonomous), Periyakulam on 13<sup>th</sup> November 2013.
23. Participated the State Level Seminar on “ **Reading And Writing Skills for Scholarly Publication** “organised by the Central Library,JayarajAnnapackiam College for Women(Autonomous), Periyakulam on 24<sup>th</sup> February 2014.
24. Participated the National Conference on “ **Advances in Mathematics and its Applications**“organised by Department of Mathematics, NadarSaraswathi College of Arts And Science,Theni on 3<sup>rd</sup> September 2014.
25. Participated the National Workshop on “ **E-Content Development For Effective Teaching And Learning**“organised by Department of Physics & Internal Quality Assurance Cell,JayarajAnnapackiam College for Women(Autonomous),Periyakulam from 11<sup>th</sup>- 13<sup>th</sup>September 2014.
26. Participated the International Symposium on “ **Emerging Trends in DNA And Membrane Computing**“organised by PG & Research Department of Mathematics, JayarajAnnapackiam College for Women(Autonomous), Periyakulam on 17<sup>th</sup> September 2014.
27. Participated the National Conference on “ **Mathematical Modelling**“organised by PG & Research Department of Mathematics, Cardamom Planter’s Association College, Bodinayakanur, Theni from 25<sup>th</sup>- 26<sup>th</sup> September 2014.

28. Attended the State Level Workshop “**Matlab**”organised by the Department of Mathematics, Fatima College(Autonomous), Madurai on 21<sup>st</sup> January 2015.
29. Participated the National Seminar on “**Sustainable Development And the Role of Women in Nation Building**” organised by the PG Dept of History & Research Centre, JayarajAnnapackiam College for women (Autonomous), Periyakulam on 11<sup>th</sup>& 12<sup>th</sup> February 2015.
30. Participated the State Level Interdisciplinary Workshop on “**Literature in Life & Life in Literature- An Exploration**“ organised by English Literary Association & Tamil Literary Association, JayarajAnnapackiam College for Women(Autonomous), Periyakulam on 6<sup>th</sup> March 2015.
31. Participated the “**Leadership Training Programme for the Faculty Members**” of JayarajAnnapackiam College for women (Autonomous), Periyakulam organised by the Centre for Education Beyond Curriculum (CEDBEC), Christ University, Bengaluru from 29<sup>th</sup> -30<sup>th</sup> June 2015.
32. Participated the National Workshop on “**Research Practices in Mathematics And Computer Science** “organised by Research Centre of Mathematics, JayarajAnnapackiam College for Women(Autonomous), Periyakulamfrom 3<sup>rd</sup> -4<sup>th</sup> August 2015.
33. Participated the Workshop on “**Techniques of Teaching Mathematics for Visually Impaired** “organised by Research Centre of Mathematics, JayarajAnnapackiam College for Women(Autonomous), Periyakulam on 4<sup>th</sup> August 2015.
34. Participated the National Seminar on “**Emerging Trends in Mathematics** “ organised by the Department of Mathematics, Fatima College(Autonomous), Madurai on 22<sup>nd</sup> December 2015.
35. Participated the National Seminar on “**Ranking the Research Publications : Citation Analysis, Citation Databases And Anti-Plagiarism**”organised by the Central Library, JayarajAnnapackiam College for Women(Autonomous), Periyakulam from 27<sup>th</sup>- 28<sup>th</sup> January 2016.
36. Participated the Workshop on “**Research Methodology with R Studio**” at Madurai School of Management, Madurai on 12<sup>th</sup>& 13<sup>th</sup> March 2016.
37. Participated the the National Conference on “**Academic Audit and Quality Enhancement in HEIs**”organised by Internal Quality Assurance Cell(IQAC), Arul Anandar College, Karumathur on 22<sup>nd</sup>& 23<sup>rd</sup> March 2016.
38. Participated the National level conference on **Quality Assurance and Quality Sustenance in Higher Educational Institutions: Challenges and Solutions** at JayarajAnnapackiamCollege for Women, Periyakulam on 29<sup>th</sup>& 30<sup>th</sup> September, 2016.
39. Participated the National seminar on **New Trends in Marketing in the Digital Era** at JayarajAnnapackiam College for Women(Autonomous), Periyakulam on 1<sup>st</sup> December, 2016.
40. Participated the National seminar on **Topological Graph Theory**at JayarajAnnapackiam College for Women(Autonomous), Periyakulam on 19<sup>th</sup> December, 2016
41. Participated the International workshop on **Research Methodology for Peace at Institute of Gandhian Studies and Research**, Gandhi Museum, Madurai on 14<sup>th</sup> February, 2017.



42. Participated the National conference on **Mathematical Modelling(NCOMM-2017)** at Cardamom Planter's Association College, Bodinayakanur on March 30<sup>th</sup> -31<sup>st</sup>.2017
43. Participated the two days National Conference on **Recent Advancements in Pure and Applied Mathematics** organised by Department of Mathematics at NadarSaraswathi College of Arts and Science, Vadaputhupatti, Theni, from 26<sup>th</sup> to 27<sup>th</sup> July 2017.
44. Participated the One Day workshop on **"Stress and Coping Skills in the context of Higher Education"** held on 7<sup>th</sup> November 2017, organized by the Centre for Educational Research, Madurai Kamaraj University, Madurai.
45. Participated the National Seminar on Recent Trends in Applied Mathematics organized by Research Centre and PG Department of Mathematics at JayarajAnnapackiam College for Women(Autonomous), Periyakulam on 13<sup>th</sup> December, 2017.
46. Participated the **"Workshop on Women in Science and Research(Speaker Series Program 2018), in collaboration with United States India Educational Foundation,( USIEF), Chennai** held on 19<sup>th</sup>-20<sup>th</sup> February, 2018 at JayarajAnnapackiam college for women(Autonomous), Periyakulam.
47. Participated **'The Big Hope 2-Youth Leaders Congress'** at Liverpool Hope University, Liverpool, UK. from 13<sup>th</sup> - 20<sup>th</sup> June, 2018.
48. Participated the International Conference on **"Emerging Trends in Mathematical Sciences and Technology"** (ICETMST 2018) organized by Research Centre & PG Department of Mathematics, JayarajAnnapackiam College For Women(Autonomous), Periyakulam, on 20<sup>th</sup> and 21<sup>st</sup>, December 2018.
49. Participated in the 4<sup>th</sup> Annual Women's Meet-AWM 2019, organized by the Centre for Advanced and design of Venus International Foundation at Radha Regent, Chennai on March 2<sup>nd</sup>, 2019.
50. Attended Webinar on **"Mathematical Modelling using Maple"** (Online Mode) conducted by Coimbatore Institute of Technology - Teaching Learning Centre(CIT-TLC) on 27<sup>th</sup> November 2020.
51. Participated in the National Conference on **"Application Of Mathematics In Real Life"** (AMRL- 2019) was organized by Research Centre & PG Department of Mathematics at Jayaraj Annapackiam College For Women(Autonomous), Periyakulam, on 17<sup>th</sup>, December 2019.
52. Participated in the one day National Seminar on **Real Analysis and Cryptography** held at Hajee Karutha Rowther Howdia College, Uthamapalayam, Theni Dt. on 6<sup>th</sup> February, 2020.
53. Attended in the E-Seminar on **"Contribution of Ramanujan in Mathematics"** organized by the Department of Applied Science, SAGE Institute of Research & Technology, SAGE University, Indore (M.P.) on 22<sup>nd</sup> December 2020.
54. Participated in the International Webinar on **"MATLAB Applications for Numerical Methods and Control Systems"** organized by the Department of

- Mathematics, K.S. Rangasamy College of Technology in view of 133<sup>rd</sup> Birth Anniversary of Srinivasa Ramanujan on 22<sup>nd</sup> December 2020
55. Participated in the National Webinar on **“An Introduction to Linear Programming Problems : Graphical and Simplex Method”** organised by the PG and Research Department of Mathematics, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Chennai on 13<sup>th</sup> February, 2021
  56. Participated in the webinar on **“Statistical Tools on Engineering Application”** organised by the Department of Mathematics, Arasu Engineering College, Kumbakonam on 24<sup>th</sup> February, 2021
  57. Participated in the National Webinar on **“Plagiarism and UGC Policy”** organised by Learning Resource Centre, Jain Deemed to be University in collaboration with eGALACTIC, on 5<sup>th</sup> March 2021.
  58. Participated in the National Webinar on **“SPORTS NUTRITION”** organized by Department of Physical Education, G.T.N. Arts College, Dindugul on 7<sup>th</sup> May 2021
  59. Participated at National Webinar on **“Applications of Mathematical Sciences (AMS) – 2021”**, organized by Department of Mathematics in collaboration with Internal Quality Assurance Cell (IQAC), Vidnyan Mahavidyalaya, Sangola on 31<sup>st</sup> May 2021.
  60. Attended the two days National Webinar on **“Advances in Algebra and Analysis”** organized by the Department of Mathematics, Rajah Serfoji Government College (Autonomous), Thanjavur, on 11<sup>th</sup> & 12<sup>th</sup> March 2021
  61. Attended the International Webinar on **“Recent Advancements in Solar Cell Technologies”** organized by the Department of Physics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, on 12<sup>th</sup> March 2021
  62. Participated in the International Webinar on **“Computational Intelligence (IWCI'21)”** organized by the PG Department of Computer Science, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, on 15<sup>th</sup> March 2021
  63. Participated in the National Webinar on **“Recent Trends in Graph Theory”** organized by PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, on 16<sup>th</sup> March 2021
  64. Participated in the Webinar on **“Emerging Trends in Algebra”** organized by PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, on 17<sup>th</sup> March 2021.
  65. Participated in the Webinar on **“Creation of Academic Accounts”** organised by the Library, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, on 18<sup>th</sup> March 2021.
  66. Participated in the Webinar on **“A Part of Continuum Mechanics in our Day to Day Life”** organised by the Department of Mathematics, Arasu Engineering College, Kumbakonam on 20<sup>th</sup> March 2021.

67. Participated in the National Webinar on “ **Graphs and its impact on Real Word**” organised by the PG Department of Mathematics, Pasumpon Muthuramalinga Thevar College, Usilampatti on 20<sup>th</sup> March 2021
68. Participated in the Webinar on “**Real Time Applications of Mathematics in Engineering**” organised by the Department of Mathematics, Arasu Engineering College, Kumbakonam on 28<sup>th</sup> April 2021
69. Participated the online Faculty Development Programme on “Quality Enhancement Initiative Through Innovative Practices”, organized by the IQAC, Jayaraj Annapackiam College for Women(Autonomous), Periyakulam on 3<sup>rd</sup> May, 2021.
70. Participated in the Webinar on “**Cosets and Lagrange’s Theorem**” organized by Department of Mathematics, K.R. College of Arts & Science, K.R Nagar, Kovilpatti on 9<sup>th</sup> June, 2021.
71. participated in the one day National Webinar on “**Dealing with Disquietude in Pandemic: Musings from Psychological Perspective**” organized by the Centre for Educational Planning and Management, A.M. School of Educational Sciences, Assam University, Silchar on 11<sup>th</sup> June 2021.
72. Participated in Sri Harihara Sarma Memorial Lecture on “**New Education Policy 2020-Skill India**” organized by Department of English, Keshav Memorial Institute of Commerce and Sciences, Narayanaguda, Hyderabad, Telangana on 6<sup>th</sup> July 2021.
73. Participated in the State Level Webinar on “**Distances and Algorithms in Graphs**” organized by the PG & Research Department of Mathematics, Holy Cross College (Autonomous), Nagercoil on 16<sup>th</sup> July 2021.
74. Participated in the Webinar on “**Cosets and Lagrange’s Theorem**” organized by Department of Mathematics, K.R. College of Arts & Science, K.R Nagar, Kovilpatti on 9<sup>th</sup> June 2021.
75. Participated in online Faculty Development Program on “**Application of Mathematics and Programming in Science and Technology**” conducted by the Department of Mathematics, Karunya Institute of Technology & Sciences, Coimbatore , from 1<sup>st</sup> June 2021 to 11<sup>th</sup> June 2021.
76. Participated in **One Week Online Faculty Development Program on “LaTeX**” organized by Department of Mathematics and Physics, Auxilium College of Arts and Science for Women, Regunathapuram, Pudukottai(Dt), from 7<sup>th</sup> June 2021 to 12<sup>th</sup> June 2021.

77. Participated in Two days virtual Faculty Development Program on “**Induction to Statistical Software**” organized by PG & Research Department of Mathematics, Government Arts & Science College , Kangeyam, from 27<sup>th</sup> June to 28<sup>th</sup> June 2021.
78. Participated in the National Webinar on “**Introduction to Mathematica**” organized by the Department of Mathematics, Seth Kesarimal Porwal College of Arts and Science and Commerce, Kamptee, Nagpur, Maharashtra, on 3<sup>rd</sup> August 2021.
79. Participated in the International Webinar on “**Digital Transformation : How can I be a part of it**” organized by Department of Business Administration, Jayaraj Annapackiam College for Women(Autonomous), Periyakulam on 14<sup>th</sup> August 2021.
80. Participated in the International Webinar on “ **New Advances In Mathematical And Computational Sciences**” organized by the PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women(Autonomous), Periyakulam on 22<sup>nd</sup> October 2021.
81. Participated in the Webinar on “Mathematician Enroute to Data Analysis and Machine Learning”organized by the Department of Mathematics , Voorhees College Vellore, on 15<sup>th</sup> September 2021.
82. Participated in the Webinar on “READ & LEAD” organized by the Library, Jayaraj Annapackiam College for Women(Autonomous), Periyakulam on 15<sup>th</sup> September 2021.
83. Participated in an one day workshop on “ Role of Mathematical Software In Real, Applied & Computational Field” organized by the Department of Applied Science, SIRT, SAGE University, Indore M.P. on 15<sup>th</sup> September 2021.
84. Participated in the national webinar on Lectures on the significant role of Algebra and Differential Equations in the 21<sup>st</sup> Century , organized by Department of Mathematics, St. Joseph University, Nagaland. 5<sup>th</sup> November 2021.
85. Participated in the national webinar on Fuzzy Modelling in Multicriteria-Criteria Decision Making conducted by Department of Mathematics, Kongue Engineering College, Perundurai , 18<sup>th</sup> December, 2021.
86. Participated in the Saturday Talk Series - “**Teaching Pedagogies & Practices**” conducted by the School of Commerce, Presidency University, Itgalpura, Rajanukunte, Bengaluru, 26<sup>th</sup> January 2022.
87. Participated in the International Webinar on “**Recent Advances in Pure And Applied Mathematics**” was organized by the PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women(Autonomous), Periyakulam on 27<sup>th</sup> January 2022.

88. Participated in the International Conference on **“Innovative Research Methodology cum Researcher Meet”** organized by Puducherry Academic Researcher Academy on 29<sup>th</sup> January 2022.
89. Participated in the **“International Conference on Emerging Trend Technologies For Sustainable Growth and Development In Commerce, Business Management And Entrepreneurship”** organized by Puducherry Academic Researcher Academy (PARA), Puducherry in collaboration with International Internship University, Australia & Dr M.G.R Educational and Research Institute, Chennai on 10<sup>th</sup> July 2022.
90. Attended the **NSS Programme Officer’s meeting** at Mother Teresa Women’s University, Kodaikanal, on 27<sup>th</sup> July 2022.
91. Participated in the National Webinar on **“Change Your Lifestyle”** organized by the Department of Physical Education G.T.N Arts College (Autonomous), Dindigul, Tamilnadu 18<sup>th</sup> August 2022.
92. Participated in the National Webinar on **Emerging Trends in Application of Mathematics** organized by the PG and Research Department of Mathematics in collaboration with Annai Vailankanni Arts and Science College, Thanjavur, on 27<sup>th</sup> October, 2022.
93. Participated in a webinar on **Variations of Doination in Graph Theory** conducted by Mohamed Sathak A.J.college of Engineering, Chennai on 16<sup>th</sup> May 2023.
94. Participated in the International **Webinar on “Emerging Trends in Mathematics”** was organized by the PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women(Autonomous), Periyakulam on 13<sup>th</sup> September, 2023.
95. Participated in the Essay Writing Competition on Kalam Kanuvu Mannavar & Aashieriyar Virthu 2023 was organized by Vaggai Tamil sangam ,Namakkal on 10<sup>th</sup> November 2023.
96. Participated in the International webinar on **“Emerging trends in Computer Science (IWETCS’23)”** organized by PG Department of Computer Science, Jayaraj Annapackiam College for Women(Autonomous), Periyakulam on 12<sup>th</sup> January, 2024.
97. Participated in the two days training programme on **“Drafting Skills for Patent and Design Filing “** organized by Intellectual property Cell and epartment of Biotechology, Mother Teresa Women’s University, Kodaikanal on 22<sup>nd</sup> and 23<sup>rd</sup> February 2024.

**Total number of Webinars Attended : 275**

**Resource Person :**

- Served as Resource Person for 15 days Free Summer Course for Children who are working in Brick Chambers from 28<sup>th</sup> April 2014 to 16<sup>th</sup> May 2014 at JayarajAnnapackiam College for Women, Periyakulam.
- Delivered a Guest Lecture on “**Value Education**” in the Faculty Development Programme for Junior Lectures held at JayarajAnnapackiam College for Women, Periyakulam on 21<sup>st</sup> June 2012.
- Served as Resource person and delivered a lecture on “**Role and responsibility of a teacher**” to the participants of the 119<sup>th</sup> & 120<sup>th</sup> Orientation Programme on 30<sup>th</sup> May, 2018 organized by the UGC-Human Resource Development Centre, Bharathiar University, Coimbatore.
- Served as a chair person in the one day National Seminar on **Real Analysis and Cryptography** held at Hajee Karutha Rowther Howdia College, Uthamapalayam, Theni Dt. on 6<sup>th</sup> February, 2020.
- Served as Resource person and delivered a special lecture in the webinar on “**Values of Learning Mathematics**” held at Sri Adi Chunchanagiri Women’s College, Cumbum, Theni(D.t) on 5<sup>th</sup> December 2020.
- Served as Subject Expert in the **Board of Studies –M.sc Mathematics** of Hajee Karutha Rowther Howdia College, Uthamapalayam, Theni(D.t) on 30<sup>th</sup> March 2021..
- Served as Resource person and delivered a special lecture in one day state level webinar on “**Competitive Examination: Ideas & Innovations in Mathematics**” organized by PG and Research Department of Commerce, Cardamom Planters’ Association College, Bodinayakanur, Theni(D.t) on 19<sup>th</sup> April 2021.
- Served as External Expert and the **Panel member in the interview** Mother Teresa Arts and Science College, T.Sindalai cherry, Theni on 3<sup>rd</sup> August 2021.
- Served as an Academic Council Nominee in the **Board of Studies Meeting (Mathematics)**, H.K.R.H. College Uthamapalayam on 9<sup>th</sup> October 2021.
- Served as Resource person and delivered a special lecture in the webinar on **Learning How to Fly-Life Lessons for the Youth** at Sri Adi Chunchanagiri Women’s College, Cumbum on 15<sup>th</sup> October 2021.
- Served as an **External Expert for the Interview** held in Mother Theresa Arts and Science College, T. Sindalaicherry, Theni(Dt) on 22<sup>nd</sup> June, 2022.
- Reviewer of M.Phil project, Mother Teresa Women’s University, Kodaikanal on 14<sup>th</sup> July 2022 and 16<sup>th</sup> July 2022.
- Served as Examiner for the M.Phil (Part Time) Viva-Voce Examination on 24<sup>th</sup> September 2022 held at Mother Teresa Women’s University, Kodaikanal.
- Served as an Academic Council Nominee in the **Board of Studies Meeting (M.sc., Mathematics)**, H.K.R.H. College Uthamapalayam on 8<sup>th</sup> November 2022.

- Served as a Resource Person and delivered a talk on **“Yoga for Health and Peace”** organized by National Service Scheme of Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 22<sup>nd</sup> June 2023.
- Served as a Resource person in the **“Inservice Training to Science Teachers”** Catalysed and Supported by Tamil Nadu State Council for Science and Technology, Chennai on **“Neutrosophic Fuzzy Sets and its Applications”** organized by the PG and Research Centre of Zoology, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni from 4<sup>th</sup> to 9<sup>th</sup> of January, 2024.

## **Awards :**

- **“Outstanding Woman in Science for the contribution and achievement in the field of Mathematics”** awarded by Centre for Advanced and design of Venus International Foundation at Radha Regent, Chennai on March 2<sup>nd</sup>, 2019. (Venus International Foundation, VIWA 2019, Estd.U/s 3 of the Indian Trusts Act 1882,ISO 9001:2008 certified )
- **“Adarsh Vidya Saraswat Rashtriya Puraskar”** (National Award of Excellence-2019) awarded by Glacier Journal Research Foundation, Global Management council ,Ahmedabad on,5<sup>th</sup> day of September,2019.(ISSN:2349-8498, Impact Factor:2.7614)
- National Level Webinar Series-**Active Participation Award** ,SPDM Arts, SBB Commerce and SMA Science College, Shirrupur(Maharastra)from 12.05.2020 to 16.05.2020.
- **Dr. A. P. J. Abdul Kalam Teacher Award** - (PIMS AWARD - 2021) from Puducherry Institute of Management & Science , Puducherry for her dedicated Service to the Academic and Students Community on 14<sup>th</sup> November 2021.
- Received the award **“Sevai Semmal Virudhu-2022 ”** in the 75<sup>th</sup> Republic Day Celebration from Kaviyarasar Kalai Tamil Sangam, Namakkal on 26<sup>th</sup> January 2022
- **Outstanding Doctoral Researcher Award** from Puducherry Academic Researcher Academy, Puducherry on 29<sup>th</sup> January 2022.
- **Admirable Professor Award-2022** awarded by Malaysia , Bharathi Creative Channel & Paramathi Velur, Kaviyarasar Kalai Tamil Sangam held on 05.10.2022 on the occasion of World Teachers Day.

- **Best Coordinator** in the largest event **World Record Bharatha Natiyam dance** conducted by Cumbum Sathguru Sangeetha Natya Vidyalaya through World Records Union (America) on 7<sup>th</sup> January, 2024.

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