

PROFILE



Name : **DR. S. ATHISAYA PONMANI**
Designation : Associate Professor
Department : Mathematics
Date of Birth : 18.05.1964
Date of Appointment : 13.07.1992

CONTACT DETAILS

Present Addresses : II Floor, Raja Steels Line,
P. T. Rajan Road
Samatharmapuram,
Theni - 625 531, Theni Dist.

Permanent Addresses : 15, Harsha Nagar Near
S. K. Tiles Eswari Nursing Home backside
Vallioor - 627 117, Tirunelveli Dist.

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Email : aponmanimat@annejac.ac.in

ACADEMIC

S. No.	Degree	University/Institution	Year of Completion
1.	B.Sc.	Tirunelveli Dist. Affiliated to Madurai Kamaraj University, Madurai.	1984
2.	M.Sc.	Holy Cross College, Nagercoil, Kanyakumari Dist. Affiliated to Madurai Kamaraj University, Madurai.	1986
3.	M.Phil.	St. Joseph's(Autonomous) College, Tiruchirapalli Affiliated to Bharathidasan University, Tiruchirapalli.	1988
4.	B.Ed.	Distance Education, Madurai Kamaraj University, Madurai.	1990

5.	Ph.D.	Madurai Kamaraj University, Madurai.	2009
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Total Experience:

- 2 years at Holy Cross College, Nagercoil.
- 28 years at Jayaraj Annapackiam College for Women (Autonomous) , Periyakulam.

Area of Specialization / Interest : Topology

Professional Affiliation:

- NSS Programme Officer (3 years)
- IQAC Co-ordinator (2012 - 2014)
- Staff club Treasurer(2 years)
- Member of Research Committee (3 years)
- Placement & Career Guidance Cell Co-ordinator(2 years)
- IQAC Co-ordinator(November, 2020 to till date)

RESEARCH EXPERIENCE

Project Undertaken:

Title of the Project : Emerging Vistas in Bitopological Spaces
 Funding Agency : UGC
 Period : 2008-2010
 Amount Sanctioned : Rs.1,00,000/-

Referee Services:

1. Journal of Advanced Research in Pure Mathematics, Haceppe Journal of Mathematics
2. Journal of Advanced Research in Pure Mathematics

Publications:

International: 20

1. *Remarks on Ultra Semi $T(YS)$ *Space* in Antarctica Journal of Mathematics, Vol. XXXIIM, No. 4, 2006. PP.1757-1766. ISSN 0972 – 8643.
2. *On $(1, 2)$ α - Hyperconnected Spaces*, International Journal of Mathematics and Analysis, Vol. 3, 2006, PP. 121 – 129. ISSN 0129 - 167X.
3. *On $(1, 2)$ α - Open Sets based on Bitopological Separation Axioms*, Soochow Journal of Mathematics, Volume 33, No. 3, PP. 375 - 381, July 2007. ISSN 0250 – 3255.
4. *δ gr - Mappings associated with δ -Generalized Regular Closed Sets*, Acta Ciencia Indica, Vol. XXXII M, No. 3, 1333, 2006. ISSN 0970 - 0455.
5. *Characterization of Uultra Separation Axioms via $(1, 2)\alpha$ - Kernel*, Lobachevskii Journal of Mathematics, No. 25 (2007), 217 – 229. ISSN 1818 – 9962.
6. *On Some Characterizations of Vividly and Blurly $(1, 2)$ - β -irresolute Mappings*, Filomat, 2007, Vol. 21, br. 2, str. 85 - 98. ISSN 0354 - 5180.
7. *On Some Low separation Axioms in Bitopological Spaces*, Boletin da Sociedade de Matematica, Vol. 24, 1-2, 2006, PP. 69-78. ISSN 0037 - 8712.
8. *Another Form of Separation Axioms* in Methods of Functional Analysis and Topology, Methods of Functional Analysis and Topology, Vol. 13, 2007, No. 4, PP. 380 – 385. ISSN

1029 – 3531.

9. ***On Ultra α - Countable Dense Homogeneous Spaces***, Lobachevskii Journal of Mathematics, 2008, Vol. 28, PP. 09 - 13. ISSN 1818 - 9962.
10. ***A Note on Bitopological g^Y - Closed Sets***, Anale Universitatii Oradea, Tom XV, 2008, PP. 171 – 180. ISSN 1221 - 1265.
11. ***Remarks on Ultra Nodec Spaces***, Anale Universitatii de Vest, Timisoara, Seria Mathematica-Informatica, 2008, XLVI, PP. 153 - 164. ISSN 1841 - 3293.
12. ***On $\theta - (1, 2)$ - Semi-Pregeneralized Closed Sets***, Filomat, 22:1, 2008, PP. 55 - 65. ISSN 0354 - 5180.
13. ***On Some Bitopological γ - Separation Axioms***, Cubo, a Mathematical Journal, Vol. 10, No. 03, Oct. 2008 , PP. 137 - 144. ISSN 0716 - 7776.
14. ***Some Weak Separation Axioms in Bitopological Spaces***, International Journal of Mathematics, Vol.3, 2009, No.2, PP. 87 - 93. ISSN 1312 - 8876.
15. ***A Bitopological View of γ - Open Sets***, Fasciculi Mathematici, No. 42, 2009, PP. 5361. ISSN 0044 - 4413.
16. ***On Pre θ – open sets in Bitopological Spaces***, Antartica Journal of Mathematics, 7(5), 2010, PP. 533 - 542. ISSN 0972-8643.
17. ***$\theta - (1, 2 -)$ Pregeneralized closed sets***, Archimedes Journal of Mathematics, I(2), 2011, PP. 149 - 155 ISSN 2278 - 0840.
18. ***Depiction of Self Assembling Hexagonal Tile Systems and Scenarios***, Journal of Applied Science and Computations, ISSN: 0076-5131, Vol. 5, Issue 7, July 2018, pp. 374-381.
19. ***On M-rough Topology***, Journal of Applied Science and Computations, Vol. 5, Issue XII, December 2018. ISSN: 0076-5131.
20. ***Application of Soft Sets in Rough Topology***, Journal of Applied Science and Computations (JASC), PP. 969-975, UGC Approved(41238), Volume VI, Issue III, March 2019. ISSN :1076-5131, Impact Factor: 5.8.

National: 06

1. ***On γ - Irresolute Mappings***, Oriental Journal of Mathematical Sciences, Vol. I, No. 2, 2007, PP. 91 - 99.
2. ***On $(1, 2) \gamma$ -US Spaces***, JAC journal of Science, Humanities and Management, Vol. 2, No. 2, June. 2015, PP. 72-81. ISSN. 2347-9868.
3. ***On $(1, 2) \gamma$ - Open Sets*** in JAC journal of Science, Humanities and Management, Vol. 3, No.1, Dec. 2015, PP. 57-63. ISSN.2347-9868.
4. ***On γ -countable Dense Homogeneous Spaces***, Proceedings of the National Workshop on “Research Practices in Mathematics and Computer Science”(RPMCS- 2015, ISBN: 978-81-923038-8-8.
5. ***Application of Soft Sets in Decision Making via Rough Topology*** in JAC Journal of Science, Humanities and Management, Vol. 4(2), 50-61(2017), June 2017. ISSN. 2347- 9868.
6. ***Upper Rough Topology***, JAC Journal of Science ,Humanities and Management, Vol. 4(2), 62 -78 (2017), June 2017. ISSN 2347-9868.

Guideship Details: Research Supervisor at Mother Teresa Women’s University, Kodaikanal from May 2015.

Seminars/Conferences/Workshops participated:

1. The Live in Consultation on “*Growing Together in Faith in Pluralistic Society*” for *All India Association for Christian Higher Education* at Sangamam, Korandakad, Munnar from 1st to 5th May,1994.

2. Seminar on "*Graph Theory and its Applications*" at Jayaraj Annapackiam College for Women, Periyakulam on 28th May, 1995.
3. State level seminar on "*Communal Harmony*" at Madurai Kamaraj University, Madurai, from 8th and 9th January, 2002.
4. Intercollegiate level seminar on "*Self and Society*" at Jayaraj Annapackiam College for Women, Periyakulam on 5th October, 2002.
5. Orientation Programme on "*LaTeX*" at Saraswathi Narayanan College, Madurai on 23rd January, 2004.
6. International Training Programme on "*Bioethics Education*" at Jayaraj Annapackiam College for Women, Periyakulam on 20th January, 2005.
7. National seminar on "*The emerging trends in Pure and Applied Mathematics*", at St.Xavier's College(Autonomous) on 27th January, 2005.
8. State level seminar on "*Recent trends in Applied Mathematics*" at Jayaraj Annapackiam College for Women, Periyakulam on 21st & 22nd September, 2005.
9. Seminar on "*Analysis and Applications*" at School of Mathematics, Madurai Kamaraj University, Madurai, 1st & 2nd December, 2005.
10. State level seminar on "*Advances in Applied Mathematics*" at Arul Anandar College, Karumathur on 18th January, 2006.
11. State level seminar on "*Application of Mathematics in IT*" at Arul Anandar College, Karumathur on 20th February, 2007.
12. State level seminar on "*Evaluation Methods towards Enhancing Quality in Higher Education*" at Arul Anandar College, Karumathur from 2nd & 3rd March, 2007.
13. International seminar on "*Functional Analysis and Applications*" at Scott Christian College(Autonomous), Nagercoil, from 28th November to 1st December, 2007.
14. National seminar on "*Participative and Responsive Organizational Dynamics for Quality Improvement in Autonomous Colleges*" at Jayaraj Annapackiam College for Women, Periyakulam, 19th & 20th December, 2007.
15. National seminar on "*Recent Trends in Mathematical Modelling*" at Jayaraj Annapackiam College for Women, Periyakulam on 17th & 18th March, 2008.
16. National Conference on "*Quality and Relevance in Higher Education- New Challenges*" at Jayaraj Annapackiam College for Women, Periyakulam on 2nd & 3rd March 2009.
17. State level seminar on *Christian values for Wholesome Life* sponsored by Xavier Board of Higher Education in India on 29th August, 2009 at Jayaraj Annapackiam College for Women, Periyakulam.
18. State level seminar on "*New Insights in Modern Topology*" at Arul Anandar College, Karumathur on 1st February, 2010.
19. Teachers Workshop on "*Higher Education in a Changing Environment*" at Jayaraj Annapackiam College for Women, Periyakulam on 25th & 26th September, 2010.
20. National seminar on "Inculcation of Values for Holistic Life Amidst Technological Scenario" at Jayaraj Annapackiam College for Women, Periyakulam on 6th & 7th December, 2010.
21. National seminar on "*Human Rights*" at Jayaraj Annapackiam College for Women, Periyakulam on 9th & 10th December, 2011.
22. National colloquium for IQAC Co-ordinators on Best Practices in Higher Educational Institutions at Arul Anandar College, Karumathur on 21st July, 2012.
23. National seminar on "Applicable Mathematics" at Jayaraj Annapackiam College for Women, Periyakulam on 21st December, 2012.
24. State level workshop on "*Statistical Packages for the Social Sciences*" at Jayaraj Annapackiam College for Women, Periyakulam from 11th to 15th December, 2013.
25. International seminar on *Mathematics in Informational Technology* at Jayaraj Annapackiam College for Women, Periyakulam on 21st August, 2013.
26. National workshop on *E-content Development for Effective Teaching and Learning* at Jayaraj Annapackiam College for Women, Periyakulam on 13th September, 2014.
27. International symposium on *Emerging Trends in DNA and Membrane Computing* at Jayaraj Annapackiam College for Women, Periyakulam on 17th September, 2014.
28. National conference on Ramanujan's Contributions and Trends in Mathematics at School of Mathematics, Madurai University, Madurai from 21st to 23rd December, 2015.
29. State level workshop on Data Analytics using R at Jayaraj Annapackiam College for Women, Periyakulam on 20th & 21st September, 2016.

30. National conference on Quality Assurance and Quality Sustenance in Higher Educational Institutions: Challenges and Solutions Jayaraj Annapackiam College for Women, Periyakulam on 29th & 30th September, 2016.
31. National seminar on Topological Graph Theory at Jayaraj Annapackiam College for Women, Periyakulam on 19th December, 2016.
32. National seminar on Recent trends in Applied Mathematics at Jayaraj Annapackiam College for Women, Periyakulam on 13th December, 2017.
33. International Conference on Emerging Trends in Mathematical Sciences and Technology – ICETMST 2018 at Jayaraj Annapackiam College for Women, Periyakulam on 20th & 21st December 2018.
34. State level seminar on Fuzzy Set Theory and its Applications at Jayaraj Annapackiam College for Women, Periyakulam 21st & 22nd February 2019.
35. National seminar on Applications of Mathematics in Real Life at Jayaraj Annapackiam College for Women, Periyakulam 17th December 2019.
36. National Faculty Development Programme and Online Training on “LaTeX” organized Sanjay Ghodawat University, Kolhapur in association with Spoken Tutorial Project, IIT, Bombay, from 27th April to 2nd May, 2020
37. National Webinar on “Use of Elsevier Tools in Research Workflow” organized by Department of Commerce, University of Madras, Chennai and Elsevier on 5th May, 2020.
38. National Level Online Faculty Development Programme on “Effective Usage of ICT Tools for Smart Teaching” organized by Jayaraj Annapackiam College for Women{Autonomous), Periyakulam on 9th to 14th May, 2020.
39. National Webinar on History of Covid 19 Pandemic organized by Jayaraj Annapackiam College for Women{Autonomous), Periyakulam on 22nd May, 2020.
40. FDP on “Research Methodology – Tools and Techniques” organized by IILM College of Engineering & Technology, Greater Noida, UP from 18th to 22nd May, 2020.
41. Workshop on Mathematical Sciences For CSIR-UGC Net Aspirants organized by St.Mary’s College (Autonomous), Thoothukudi from 19th to 23rd May, 2020.
42. National Webinar on “ Outcome Based Education” organized by Jayaraj Annapackiam College for Women{Autonomous), Periyakulam from 22nd to 29th May, 2020.
43. Webinar on “Algebraic Graph Theory” organized by Government Arts College for Men, Nandanam, Chennai on 1st June, 2020.
44. Webinar on Statistical Tool for Research Data Analysis & Research Publication with Special Reference to Citation, Impact Factor and h index" organized by Jayaraj Annapackiam College for Women{Autonomous), Periyakulam on 1st & 2nd June, 2020.
45. Webinar 'CRISIS of TRIAGE and UNIVERSAL REMEDY - Covid -19, A Perspective' organized by Jayaraj Annapackiam College for Women{Autonomous), Periyakulam on 3rd June, 2020.
46. National webinar on “Fractals via Fixed Point Theory” organized by Jayaraj Annapackiam College for Women{Autonomous), on Periyakulam 3rd June, 2020.
47. Webinar on The Mathematics - The Language of Engineering organized by University College for Engineering - BIT Campus, Anna University on 4th June, 2020.
48. International Webinar on Cyber Security for Women organized by Jayaraj Annapackiam College for Women{Autonomous), Periyakulam on 5th June, 2020.
49. Webinar on BASIC TOPOLOGY organized by Arputha College of Arts & Science for Women, Vamban, Pudukkottai on 5th June, 2020.
50. Webinar on GRAPH EMBEDDING organized by Don Bosco College of Arts and Science, Keela Eral, Thooththukkudi on 16th June 2020.
51. Webinar titled "Accelerating Education 4.0 using ICT tools - POST COVID PARADIGM" organized by St. Xavier's College, Palayamkottai on 17th June, 2020.
52. International Web Conference on Advances in Mathematics organized by St. Mary’s College (Autonomous), Thoothukudi from 17th to 19th June, 2020.
53. Webinar on "Industry 4.0: Issues and Challenges" organized by Buddha Institute of Technology, GIDA, Gorakhpur on 20th June, 2020.
54. Online international FDP on "Avant- Garde trends in Mathematics” organized by Department of Mathematics, Bannari Amman Institute of Technology, Sathy, Tamilnadu, India from 17th to 23rd June, 2020.
55. Webinar on " E- Mobility and Solar Charging for E- Mobility" organized by Chouksey Engineering College on 24th June, 2020.

56. International Webinar on the topic "Creating opportunities in the face of adversities" organized by Department of Electronics & Communication Engineering, Raj Kumar Goel Institute of Technology, Ghaziabad, Uttar Pradesh on 25th June, 2020.
57. International Webinar on "Emerging Trends in Genetic Engineering" organized by CHAITANYA(Deemed to be University), Hanamakonda, Telungana on 30th June, 2020.
58. Webinar on QUALITATIVE RESEARCH organized by Department of Psychology, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore on 30th June, 2020.
59. FDP on the topic "Vulnerabilities Assessment while work from home" organized by Amity University on 27th June, 2020.
60. International Webinar on "Sustainable Approaches for Environmental Protection: Lesson from COVID – 19 Pandemic" organized by KIET Group of Institutions, Ghaziabad on 25th June, 2020.
61. Webinar titled "COVID - A hidden war in open field" organized by IQAC, St. Xavier's College, Palayamkottai on 29th June, 2020.
62. International Webinar on "Technology of Sustainability: Potential of Technology in Shaping the World" organized by Department of Electronics and Communication Engineering, Raj Kumar Goel Institute of Technology, Ghaziabad, Uttar Pradesh on 2nd July, 2020.
63. Webinar on "One District One Product (ODOP): A Novel Initiative for Territorial Self Sustainability" organized by Mechanical Engineering Department, Buddha Institute of Technology, Gorakhpur on 4th July, 2020.
64. Webinar on "Qualitative Analysis of Stochastic Epidemic Models" organized by Department of Mathematics, Government Arts College for Women, Nilakottai on 4th July, 2020.
65. FDP on " Exposure & Rejuvenation of Technologies in Changed Era of World" organized by Raj Kumar Goel Institute of Technology, Ghaziabad, Uttar Pradesh from 6th to 10th July, 2020.
66. Webinar on "Challenges of Cyber World: Relevance of Emerging Technologies" organized by Department of Electronics & Communication Engineering, Raj Kumar Goel Institute of Technology, Ghaziaba, Uttar Pradesh on 9th July, 2020.
67. Webinar on "SOFT_COMPUTING BY SOFT SETS" organized by Department of Mathematics, Don Bosco College of Arts and Science, Keela Eral, Thoothukudi District on 10th July, 2020.
68. Webinar on " KNOW SELF LOVE SELF CELEBRATE SELF " organized by G.T.N. Arts College (Autonomous), Dindigul on 11th July, 2020.
69. Webinar on "Wellness Of Women - WOW Moments" organized by Women Cell, G.T.N. Arts College (Autonomous), Dindigul on 14th July, 2020.
70. National Level Two Days online Workshop "Free and Open Source Alternative for Web Conferencing and Teaching Learning " in collaboration with Swecha organized by Dept. of CSE, Mahatma Gandhi Institute of Technology on 15th and 16th July, 2020.
71. Online FDP on "Appraisal of Mathematical Learning Outcomes in Cybergogy Environment" organized by Department of Mathematics, Arul Anandar College (Autonomous), Karumathur, Madurai from 15th to 17th July, 2020.
72. Webinar on "Design Thinking and Innovation in Engineering and Technology" organized by Department of Electronics & Communication Engineering, Raj Kumar Goel Institute of Technology, Ghaziaba, Uttar Pradesh on 16th July, 2020.
73. National Level Webinar on "Online Education- Obstacles and Solutions" organized by IQAC, St. Xavier's College, Palayamkottai on 16th July, 2020.
74. National Webinar "HANGOUT WITH ENTREPRENEURS" organized by Dept. of Civil Engineering, IILM College of Engineering and Technology, Knowledge Park - II, Greater Noida on 18th July, 2020.
75. National Webinar on New Approach in Graph Theory organized by Fatima College (Autonomous), Madurai from 18th to 20th July, 2020.
76. International Webinar on "Purpose of life and living. Do we actually live or exist?" organized by G.T.N. Arts College (Autonomous), Dindigul on 19th July, 2020.
77. International Webinar on "TRANSVERSAL TRENDS" organized by Department of Science and Humanities, Nehru Institute of Engineering and Technology, Coimbatore from 22nd to 24th July, 2020.

78. Webinar on "New Ideas and Innovations in the Technology & Use of IoT in Telecommunications" organized by Department of Electronics and Communication Engineering RKGIT, GHAZIABAD (U.P.) on 23rd July, 2020.
79. National Level Webinar on "ICT tools for Teaching - Learning" organized by IQAC, St. Xavier's College, Palayamkottai on 23rd July, 2020.
80. National Webinar on "Soft Topology and its Applications" organized by Paavai Engineering College(Autonomous), Namakkal on 24th July, 2020.
81. STTP (Short Term Training Programme) on "MATLAB and MATHEMATICA for Scientific Research" organized by Department of Mathematics , Arul Anandar College (Autonomous), Karumathur, Madurai Dist. From 27th to 29th July, 2020.
82. Faculty Development Program titled "Gender Equity in Classroom" organized by Nehru Institute of Engineering and Technology, Coimbatore on 28th July, 2020.
83. State Level Webinar on "INTRODUCTION TO AUTOMATA THEORY" organized by Department of Mathematics, Idhaya College for Women, Sarugani on 29th July, 2020.
84. Webinar on "Caring your Heart, Heartfully and Thoughtfully" organized by G.T.N. Arts College(Autonomous), Dindigul on 29th July, 2020.
85. Webinar on Exploring New Horizons in Counselling: Turning Challenges into Opportunities organized by Holy Cross College(Autonomous), Nagercoil on 4th August, 2020.
86. Webinar on Assessment Accreditation Process for Women College organized by National Assessment and Accreditation Council (NAAC) on 5th August, 2020.
87. Webinar on "ICT Enabled Pedagogy" organized by Internal Quality Assurance Cell Government College of Education, Pudukkottai on 6th August, 2020.
88. Webinar on "ICT Enabled Pedagogy" organized by Internal Quality Assurance Cell Government College of Education, Pudukkottai on 6th August, 2020.
89. Webinar on "Artificial Intelligence and Machine Learning with Python" organized by Department of Computer Science and Engineering, Nehru Institute of Engineering and Technology, Coimbatore on 7th August, 2020.
90. National Webinar on Environmental Education: Human Step Towards Saving Earth and Humanity organized by Internal Quality Assurance Cell Government College of Education, Pudukkottai on 17th August, 2020.
91. Webinar on "Campus Placements During Covid-19" organized by MyOS & Nazareth College of Arts and Science, Chennai on 19th August, 2020.
92. National Webinar on Environmental Education: Human Step Towards Saving Earth And Humanity organized by Department of Education - Biological Sciences, Government College of Education, Pudukkottai on 17th August, 2020.
93. Webinar Series 1 : Topology organized by Rajagiri School of Engineering & Technology, Rajagiri Valley, Kouchi, Kerala from 23rd to 25th August, 2020.
94. Online Seminar titled 'Enhancing Entrepreneurship Skills Using Mathematical Mind' organized by Manipal University, Jaipur, India on 24th September, 2020.

Resource Person:

- Differential equations: Horticultural College and Research Institute, Periyakulam on 6th November, 2007.
- Strong and weak forms of open sets: Arul Anandar College, Karumathur, Madurai on 18th July, 2010.
- Organized Intercollegiate "Seminar on Self and Society" at Jayaraj Annapackiam College for Women, Periyakulam on 5th October, 2002.
- Convened State Level Seminar on "Recent Trends in Advanced Mathematics" at Jayaraj Annapackiam College For Women, Periyakulam on 7th December, 2012.
- Delivered a lecture on "Role of Fibonacci Numbers in Optimization" at State level seminar on "Emerging Trends in Mathematics" on 1st March, 2012 at Arul Anandar

College (Autonomous), Karumathur.