

Associate Professor of Mathematics



Name	<i>Dr. (Mrs.) R. ANBUSELVI</i>		
Designation	<i>Associate Professor of Mathematics</i>		
Qualification	<i>M.Sc., M.Phil., P.h.D.,</i>		
Age & DOB	<i>50 & 05.03.1965</i>		
Date of first appointment	<i>15.02.1989</i>		
Date of joining in govt service	<i>15.02.1989</i>		
Research Experience (years)	<i>14 years</i>		
Area of Research	<i>Number Theory</i>		
Research Guidance (No)		<i>M. Phil</i>	<i>Ph. D.</i>
	<i>Guided</i>	<i>28</i>	<i>--</i>
	<i>Guiding</i>	<i>4</i>	<i>6</i>

Research Papers

Published:36

1.A Special Pythagorean Triangle,

ActaCienciaIndica, Vol.XXXI M,

No.1, (2005),pp 53-54

2.A Remarkable observation on

$x^2 + xy + y^2 = N$, *ActaCienciaIndica, Vol.XXXI*

M, No.4,(2005),pp 997-998

3. On Ternary Quadratic Homogeneous

Diophantine Equation

$x^2 + pxy + y^2 = z^2$, *Bulletin of Pure and Applied*

Sciences, *Vol.24E, No.2,pp.405-408,2005.*

4. On the system of equations

$xy = \alpha^2, 2(x + y) + xy = \beta^2$, *Bulletin of Pure and*

Applied Sciences, Vol.25E,No.2,pp.347-

349,2006.

5.Integralsolutions of $x^2 \pm xy + y^2 = (x - my)^4$,

ActaCienciaIndica,Vol.XXXII,M.No.4,pp.1743-

1746,2006.

6. Integral solutions of

$x^2 + pxy + y^2 = 4N$, *Proc.Nat.Acad.Sci.India,*

Vol.77(A),III, pp.255-257,2007.

7. On the Diophantine equation

$x^2 + bxy + cy^2 = 1$, *ActaCienciaIndica,*

Vol.XXXIII.M.No.4,pp.1785-1787,2007.

8. Integral solutions

of $a(x^2 - kx + 1) - b(y^2 - ky + 1) = 0$, Impact .Sci.Tec

h. Vol.No.2,pp.35-40,2007.

9. Integral solutions of ternery cubic

Diophantine equation $x^2 + y^2 + 4N = zxy$, Pure

and Applied Matematika Sciences,

Vol.1,LXVII.No.1-2,pp.97-99,2008.

10. Integral solutions of ternery quartic

Diophantine

*equation $x^2 + y^2 = z^4$,ActaCienciaIndica,Vol.XX
XIV M,N0.1,pp.297-300,2008.*

11. Integral solutions of

*$4ay^2 - (a-1)x^2 = 3a+1$,ActaCienciaIndica,Vol.X
XXIV M,N0.1,pp.291-295,2008.*

12. Integral solutions of $X^2 - Y^2 = (X - MY)^4$,

Pure and Applied Matematika Sciences,

Vol.LXVIII, No. 1-2,pp.97-99, 2008.

13. Integral solutions of $x^3 + y^3 = (x - y)^4$,

***Reflections des ERA Journal of Mathematical
Sciences,pp.23-27, 2009.***

14. A Remarkable Pythagorean Triangle,

*ActaCienciaIndica,Vol.XXXV M,N0.1,pp.172-
174,2009.*

15. . Integral solutions of ternery cubic

Diophantine equation

$x^2 + y^2 - 4N = zxy$,Impact .Journal of Science

and Technology

16.R.Anbuselvi, Integral Solutions of Binary

Quadratic Diophantine equation

*$x^2 + pxy + y^2 = N$, **The International Journal of***

Engineering And Science, Volume 3, Issue

6,Pages 25-29, June 2014,ISSN(e):2319 –

1813,

17.R.Anbuselvi, S.Karthiga On the ternary quadratic Diophantine equation
 $(2k + 2)(x^2 + y^2) - (4k - 1)xy = 8(k + 1)z^2$ **Indian Journal of Applied Research** Volume 5, Issue 7, July 2015, ISSN 2249-555X **Impact factor:3.6241**

19.R.Anbuselvi, N.Ahila, On the ternary quadratic Diophantine equation $3(x^2 + y^2) - 5xy = 11z^2$
The International Journal of Engineering And Science Volume 4, Issue 7, Pages 26-30, July 2015, ISSN(e):2319 – 1813,

20.R.Anbuselvi, K.S.Araththi, On the ternary quadratic Diophantine equation $2y^2 + xy = z^2$,
International Journal of Applied Engineering Research, Volume 10, No.51(2015), ISSN 0973-4562.

21.R.Anbuselvi, S.A.Shanmugavadivu, Integral solutions of Ternary Quadratic equation $5x^2 - 2y^2 = 3z^2$ **International Journal of Applied Research**, Volume I, Issue 11, Pages 179-181, July 2015, ISSN: 2394-5869. **Impact factor:5.2**

22.R.Anbuselvi, N.Ahila, On the ternary quadratic Diophantine equation $4x^2 + 5y^2 = 21z^2$,
International Journal of Applied

*Research, Volume I, Issue 12, Pages
15-20, August 2015, ISSN: 2394-5869.*

Impact factor:5.2

23. R.Anbuselvi,
N.Ahila, , On
homogeneous ternary
quadratic equation
 $z^2 = 15x^2 + y^2$, **IOSR**

**Journal of
Mathematics, Vol.12,
Issue1, Ver.III(Jan-
Feb.16), PP.78-82**

ISSN:2278-5728,
Impact Factor:1.728

24.R.Anbuselvi,
S.A.Shanmugavadivu, Integral solutions
of Ternary Quadratic Diophantine
equation $x^2 + xy + y^2 = 12z^2$, **IOSR**

**Journal of
Mathematics Vol.12, Issue1, Ver.III(Jan-
Feb.16), PP.75-77, ISSN:2278-
5728. Impact Factor:1.728**

25. R.Anbuselvi,
S.Jamunarani, Integral Solutions of
Ternary Quadratic Diophantine
Equation $11x^2 - 3y^2 = 8z^2$,
**International Journal of Advanced
Research in Education & Technology,
Vol.3, Issue 1(Jan-Mar.2016)Pages-**

26-28,ISSN:2394-6814.

26.R.Anbuselvi, K.Kannaki, *On ternary quadratic Equation*

$11x^2 + 3y^2 = 14z^2$, ***An International Journal Paripex Indian Journal of Research,***

Volume 5, Issue 2, Feb 2016, 65-68, ISSN: 2250-1991. Impact factor:5.215

27. R.Anbuselvi,S.Jamunarani *Integral solutions of $x^2 + xy + y^2 = 7z^2$,*

International Journal of Applied Research, Vol.05, Issue 03, March 2016, Pages:316-319, ISSN No.2277-8160 Impact Factor:3.62

28.R.Anbuselvi, N.Ahila *Quartic Diophantine equation with four unknowns*

$(x^2 - y^2)^2 + (z^2 - 8)^2 = w^4$. ***An***

International Journal –Indian Journal of Research, Volume 6, Issue 3, Mar 2016, 25-29, ISSN: 2250-1991. Impact Factor:5.215.

29. R.Anbuselvi,

S.A.Shanmugavadivu *On the ternary quartic equation $x^2 + 3xy + y^2 = z^4$,*

PARIPEX- Indian Journal of Research, Volume 5, Issue 3, March

2016,459-460, ISSN: 2250-

1991.**Impact Factor:5.215.**

30.R.Anbuselvi, S.JamunaraniIntegral
Solutions of Ternary Quadratic
Diophantine Equation

$7(x^2 + y^2) - 13xy = 27z^2$, **IOSR Journal**

of Mathematics, Volume 12, Issue 4,

Ver.IV (July-Aug 16),PP 85-89,

ISSN:2278-5728,**Impact Factor:1.728**

31. R.Anbuselvi, K.KannakiOn the
ternary quadratic equation

$x^2 + xy + y^2 = 12z^2$, **International**

Journal of Applied Research, Volume

2, Issue 3, (June 16),PP533-535

ISSN:2394-750, **Impact Factor:5.2**

32.R.Anbuselvi, K.S.Araththi,On the
ternary quadratic Diophantine

equation $x^2 + 4y^2 = 40z^2$, **Global**

Journal of Applied Research,Volume

5, Issue 8, Aug 16,PP 256-257

Impact Factor:3.62 .

33.R.Anbuselvi, K.Kannaki,On the
ternary cubic

equation $3(x^2 + y^2) - 5xy + x + y + 1 = 15z^3$,

**International Journal of Scientific
Research**,

34. R.Anbuselvi,K.S.AraththiOn the
ternary quadratic Diophantine

	<p>equation $2y^2 + xy = 4z^2$, International Journal of Applied Research, Vol. VI, Issue IX, 379-381, September 2016, Impact factor: 3.919. ISSN No.2249-555X.</p> <p>35. R. Anbuselvi, R. Nandhini On Ternary Quadratic Equation $7x^2 - 3y^2 = z^2$, PARIPEX- Indian Journal of Research, Impact Factor: 5.215.</p> <p>36. R. Anbuselvi, R. Nandhini, On Ternary Quadratic Equation $5(x^2 + y^2) - 9xy = (k^2 + 19)z^2$ IOSR Journal of Mathematics, Impact Factor: 1.728</p>
Books published (No)	--
Major/Minor Projects	<i>Proposal sent for Minor Research Project</i>
Conference Participation	<p>1. Participated in a one day seminar on "Mathematical Modelling" at T.B.M.L. College on 22nd March 1997.</p> <p>2. Participated in the UGC sponsored seminar</p>

on “Contemporary Issues in Human Rights” at A.D.M.College for Women, Nagapattinam on September 10 & 11, 2004.

3. Participated in a Two day State level Workshop on “Women’s Education for Equality and Empowerment “ on 3-4th March 2006.

4. Participated in a Workshop on “Educational Technology and E- content Development” at A.D.M.College for Women, Nagapattinam on 20-12-2006 & 21-12-2006.

5. Participated in the UGC Sponsored Regional workshop on “Strategies and Techniques of Teaching Communication Skills to the Rural Learners” held on 23rd and 24th July 2007 at A.D.M.College for Women, Nagapattinam.

6. A UGC sponsored **National Seminar on “Remote sensing and Digital Image processing”** at A.D.M.College, Nagapattinam, 3,4th July 2009.

7. A National seminar on Applications of Algebra and Number Theory held during December 4-5, 2009 at National College, Trichy.

8. National Seminar on "**Renewable Energy-an Amazing Resource**" sponsored by UGC and organized by the Department of Physics. A.D.M.College for Women, Nagapattinam, during 20,21st January 2011.

9. *National Conference on **Green Chemistry and its Global Perspectives** sponsored by UGC and CRSI organized by the Department of Chemistry at A.D.M.College,Nagapattinam, during 8th & 9th March, 2013.*

10. *National Seminar on **The Strategic Role of Mathematical and Statistical Models** sponsored by UGC and Central Institute of Mining and Fuel Research,(CSIR), Jharkhand organized by the Department of Mathematics. A.D.M.College for Women, Nagapattinam, during 4th & 5th July, 2013.*

11. *CSI & ISTE Sponsored National Conference organized by the Department of Research & Development, at E.G.S.Pillai Engineering College, Nagapattinam on 28th September 2013.*

12. *Participated in the UGC sponsored National Seminar on “Environmental Concerns reflected in Indian Writing in English”held on 10th and 11th April 2014 at A.D.M.College for Women, Nagapattinam.*

13. *International conference on “Advances in Engineering, Science and Management” organized by the Department of Research & Development at E.G.S.Pillai Engineering College, Nagapattinam on 08,09th May 2015.*

14. *Regional Seminar on “Algebra and Number*

	<p>Theory”organized by the Department of Mathematics, SrimatiIndhra Gandhi College on 26.09.15, Trichy.</p>
<p>Papers Presented:</p>	<p><i>1. Presented a paper entitled “A Special Pythagorean Triangle” in the national level seminar on Recent Trend of Research in Mathematics and its Application at A.V.V.M. Sri Pushpam College, Poondi on Feb.1 & Feb.2, 2004.</i></p> <p><i>2. Presented a paper entitled “On Ternary Quadratic Homogeneous Diophantine Equation $X^2 + PXY + Y^2 = Z^2$ ” in the UGC Sponsored national level seminar on Mathematical Modelling to Social and Managerial Problems at A.D.M.College for Women, Nagapattinam on September 24 & 25, 2004.</i></p> <p><i>3. Presented a paper entitled “Integral Solutions of $X^2 + PXY + Y^2 = 4N$ ” in the State level seminar on Stochastic Processes and its Applications at A.V.V.M. Sri Pushpam College, Poondi on Mar.16 & 17, 2006.</i></p> <p><i>4. Presented a paper entitled “Integral Solutions of Ternary Cubic Diophantine Equation $X^2 + Y^2 + 4N = ZXY$ ” in the national level seminar on Emerging Trends of Mathematical Techniques and their</i></p>

applications in Computer Science at Shrimati Indira Gandhi College, Trichy on 23rd & 24th February 2007.

5. Presented a paper entitled “On the System of equations $XY = \alpha^2, 2(X + Y) + XY = \beta^2$ ” in the national conference on Applications of Mathematics at Periyar E.V.R. College, Trichy during March 22-23, 2007.

6. Presented a paper entitled “Integral Solutions of $X^2 + XY + Y^2 = Z(X + Y)$ ” in the national seminar on Intellectual Perspectives of Mathematics on 5th April 2007 at Cauvery College for Women, Trichy.

7. Presented a paper entitled “Integral Solutions of Ternary Quadratic equation $x^2 + 3xy + y^2 = z^4$ in the International Conference on Number Theory and Modular Forms held during 20-22 December 2008 at Sastra University, Kumbakonam.

8. Presented a paper entitled “Integral Solutions of $x^3 + y^3 = (x - y)^4$ in the national level seminar on Applications of Algebra and Number Theory held during December 4-5, 2009 at National College, Trichy.

9. Presented a paper entitled “On Sedan Sets” in the UGC Sponsored national level seminar on “The Strategic Role of Mathematical and Ststistical Models” at A.D.M.College for

	<p><i>Women, Nagapattinam on 04,05th July 2013.</i></p> <p><i>10. Presented a paper entitled Ranking Fuzzy numbers with Maximum and Minimum sets on “CSI & ISTE Sponsored National Conference organized by the Department of Research & Development” at E.G.S.Pillai Engineering College, Nagapattinam on 28th September 2013.</i></p> <p><i>11. Presented a paper entitled On the ternary quadratic Diophantine equation $2y^2 + xy = z^2$ on “International conference on Advances in Engineering, Science and Management organized by the Department of Research & Development” at E.G.S.Pillai Engineering College, Nagapattinam on 08,09th May 2015.</i></p> <p><i>12. Presented a paper entitled On the ternary quadratic Diophantine equation $5x^2 - 2y^2 = 3z^2$ on “Regional Seminar on Algebra and Number Theory organized by the Department of Mathematics” at SrimatiIndhra Gandhi College on 26.09.15, Trichy.</i></p> <p><i>13. Presented a paper entitled On the ternary quadratic Diophantine equation $4x^2 + 5y^2 = 21z^2$ in the “Regional Seminar on Algebra and Number Theory organized by the Department of Mathematics” ,SrimatiIndhra Gandhi College on 26.09.15, Trichy.</i></p>
Conference Organized	➤ Member, a two day National Seminar

	<p><i>on “Mathematical Modeling to Social and Managerial Problems” ADM College, Nagapattinam, 24,25th September 2004.</i></p> <p>➤ <i>Member, a Two-day National Seminar on “The Strategic Role of Mathematical and Statistical Models” in collaboration with CSIR Institute, Jharkhand, ADM College, Nagapattinam, 4,5th July 2013.</i></p>
Awards/Honors Received	Nil
Extension Activities	<i>N.S.S. Programming Officer(1989-1991)</i>
Administrative Position in college	Nil
Membership in academic/professional bodies	<p>➤ <i>Referee, International Journal of Applied Mathematics and Information Sciences, Egypt.</i></p> <p>➤ <i>Research advisor, M.Phil & PhD degree programmes, Bharathidasan, University</i></p> <p>➤ <i>Member, Doctoral Committee, PhD candidates of various Research Supervisors, Bharathidasan University, Tiruchirapalli.</i></p> <p>➤ <i>Examiner, PG Mathematics Board, Bharathidasan University, Tiruchirapalli.</i></p> <p>➤ <i>Member, Question Paper Setter’s</i></p>

	<p><i>Board of various Autonomous Colleges.</i></p> <ul style="list-style-type: none"> ➤ <i>Board of studies member, Mathematics Board, A.D.M.College, Nagapattinam</i> ➤ <i>Member, Scrutiny Board, Government College for Men, Kumbakonam.</i> ➤ <i>Judge, Inspire Exhibition organized by Tamil Nadu State Council for Science and Technology, Chennai Conducted by CEO, Nagapattinam at N.D.H.S.School, Nagapattinam,</i> ➤ <i>Subject expert, Interview board of nearby Schools and Colleges.</i>
<i>Others (relevant to academic activity)</i>	<ol style="list-style-type: none"> 1. <i>Coordinator - Alumnae Association, 1996-2009</i> 2. <i>Coordinator - Quiz Club, 2009-2013</i> 3. <i>Coordinator - UGC Scholarship , Since 2009</i> 4. <i>Coordinator- General (Triennial) Inspection Commission 2012</i> 5. <i>Coordinator- General (Triennial) Inspection (Triennial) Commission 2015</i> 6. <i>Coordinator - Extension of Autonomous Status 3rd Cycle 2015</i> 7. <i>Coordinator - NAAC 3rd Cycle 2016</i>
<i>For Correspondence</i>	<p>Official Address: <i>Dr. (Mrs.) R. Anbuseelvi, M.Sc., M.Phil., Ph.D., Associate Professor of Mathematics, ADM College for Women (Autonomous),</i></p>

	<p><i>Nagapattinam-611001</i></p> <p><i>Residential Address:</i></p> <p><i>Dr.(Mrs.)R. Anbuselvi, M.Sc., M.Phil., Ph.D.,</i></p> <p><i>No.21, Elan Cheran Nagar,</i></p> <p><i>Kadampadi,</i></p> <p><i>Nagapattinam-611 001.</i></p> <p><i>Mobile No.94436 01993</i></p> <p><i>Email:anbuselvi134@gmail.com</i></p>
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A.D.M. College for Women (Autonomous), Nagapattinam

Dr.R.Anbuselvi, Asso. Prof. of Mathematics

Paper Publications - July 2015 to June 2016

1	<p><i>On the ternary quadratic Diophantine equation</i> $(2k + 2)(x^2 + y^2) - (4k - 1)xy = 8(k + 1)z^2$ Indian Journal of Applied Research <i>Volume 5, Issue 7, July 2015, ISSN 2249-555 XImpact factor: 3.6241</i></p>
2	<p><i>On the ternary quadratic Diophantine equation</i> $3(x^2 + y^2) - 5xy = 11z^2$ The International Journal of Engineering And Science <i>Volume 4, Issue 7,</i> <i>Pages 26-30, July 2015, ISSN(e):2319 – 1813,</i></p>
3	<p><i>On the ternary quadratic Diophantine equation</i> $2y^2 + xy = z^2$, International Journal of Applied Engineering Research, <i>Volume 10, No.51(2015), ISSN 0973-4562.</i></p>
4	<p><i>Integral solutions of Ternary Quadratic equation</i> $5x^2 - 2y^2 = 3z^2$ International Journal of Applied Research, <i>Volume I, Issue 11, Pages 179-181, July 2015, ISSN: 2394-5869. Impact factor:5.2</i></p>
5	<p><i>On the ternary quadratic Diophantine equation</i> $4x^2 + 5y^2 = 21z^2$, International Journal of Applied Research, <i>Volume I, Issue 12, Pages 15-20, August 2015, ISSN: 2394-5869.</i> Impact factor:5.2</p>
6	<p><i>On homogeneous ternary quadratic equation</i> $z^2 = 15x^2 + y^2$, IOSR Journal of Mathematics, <i>Vol.12, Issue1, Ver.III(Jan-Feb.16), PP.78-82</i> <i>ISSN:2278-5728, Impact Factor:1.728</i></p>
7	<p><i>Integral solutions of Ternary Quadratic Diophantine equation</i> $x^2 + xy + y^2 = 12z^2$, IOSR Journal of Mathematics <i>Vol.12, Issue1, Ver.III(Jan-Feb.16), PP.75-77, ISSN:2278-5728. Impact Factor:1.728</i></p>
8	<p><i>Integral Solutions of Ternary Quadratic Diophantine Equation</i></p>

	$11x^2 - 3y^2 = 8z^2$ International Journal of Advanced Research in Education & Technology, Vol.3, Issue 1(Jan-Mar.2016)Pages-26-28,ISSN:2394-6814.
9	<i>On ternary quadratic Equation</i> $11x^2 + 3y^2 = 14z^2$, An International Journal Paripex Indian Journal of Research, <i>Volume 5, Issue 2, Feb 2016, 65-68, ISSN: 2250-1991. Impact factor:5.215</i>
10	<i>Integral solutions of $x^2 + xy + y^2 = 7z^2$,</i> International Journal of Applied Research, Vol.05, Issue 03, March 2016, Pages:316-319, ISSN No.2277-8160 Impact Factor:3.62
11	<i>Quartic Diophantine equation with four unknowns</i> $(x^2 - y^2)^2 + (z^2 - 8)^2 = w^4$. An International Journal –Indian Journal of Research, Volume 6, Issue 3, Mar 2016, 25-29, ISSN: 2250-1991. Impact Factor:5.215.
12	<i>On the ternary quartic equation $x^2 + 3xy + y^2 = z^4$,</i> PARIPEX- Indian Journal of Research, Volume 5, Issue 3, March 2016,459-460, ISSN: 2250-1991.Impact Factor:5.215.
13	<i>Integral Solutions of Ternary Quadratic Diophantine Equation</i> $7(x^2 + y^2) - 13xy = 27z^2$, IOSR Journal of Mathematics, Volume 12, Issue 4, Ver.IV (July-Aug 16),PP 85-89, ISSN:2278-5728,Impact Factor:1.728
14	<i>On the ternary quadratic equation $x^2 + xy + y^2 = 12z^2$,</i> International Journal of Applied Research, Volume 2, Issue 3, (June 16),PP533-535 ISSN:2394-750, Impact Factor:5.2
15	<i>On the ternary quadratic Diophantine equation $x^2 + 4y^2 = 40z^2$,</i> Global Journal of Applied Research, Volume 5, Issue 8, Aug 16,PP 256-257 Impact Factor:3.62 .

16	<i>On the ternary cubic equation $3(x^2 + y^2) - 5xy + x + y + 1 = 15z^3$, International Journal of Scientific Research.</i>
17	<i>On the ternary quadratic Diophantine equation $2y^2 + xy = 4z^2$, International Journal of Applied Research, Vol.VI, Issue IX, 379-381, September 2016, Impact factor: 3.919. ISSN No.2249-555X.</i>
18	<i>On Ternary Quadratic Equation $7x^2 - 3y^2 = z^2$, PARIPEX- Indian Journal of Research, Impact Factor:5.215.</i>
19	<i>On Ternary Quadratic Equation $5(x^2 + y^2) - 9xy = (k^2 + 19)z^2$ IOSR Journal of Mathematics, Impact Factor:1.728.</i>