

BIO DATA

1. NAME :Dr. S. DEVIBALA
2. QUALIFICATION :M.Sc, M.Phil., P.hD.
3. DESIGNATION & DEPARTMENT : Assistant professor of Mathematics
4. AGE & DATE OF BIRTH : 40 & 10.07.1979
5. SEX : Female
6. PERMANENT ADDRESS : 132/1, North Agraharam, Thenkarai, Periyakulam,
Theni (Dt)
7. ADDRESS FOR COMMUNICATION :323, Nellai Street, Thasildharnagar, Anna Nagar,
Madurai
8. EDUCATIONAL QUALIFICATION :

S.No	COURSES	SUBJECT	YEAR OF COMPLETION	INSTITUTION
1	B.Sc	Mathematics	April 1999	Shrimati Indira Gandhi College for Women, Thiruchirappalli
2	M.Sc	Mathematics	May 2001	Government Arts College, Karur.
3	M.Phil	Mathematics	January 2003	National College, Tiruchirappalli.
4	Ph.D	Mathematics	April 2008	National College, Tiruchirappalli.

9. Research Work / Experience :19 years
10. Recognized Research guide : yes
11. Area of Specialization :Algebraic Number Theory
12. Teaching Experience

S.No	Designation	Place	Duration	No. of Years
1	Guest Lecturer	School of Engineering and Technology, Bharathidasan University	10/07/2003 to 30/04/2005	1 year 9 months
2	Lecturer	Shimati Indira Gandhi College, Tiruchirappalli	1/07/2005 to 30/04/2009	3 years 9 months
3	Assistant Professor of Mathematics	Govt. Arts College for Women(A), Pudukkottai.	09/07/2009 to 04/07/2012 AN	3 years
4	Assistant Professor of Mathematics	Sri Meenakshi Govt. Arts College for	05/07/2012 FN to Till Date	7 years

	Women(A), Madurai		
Total Teaching Experience			15 years 6 months

13. Orientation / Refresher Courses / Other Programmes & Training :

S.No	Name of the Course	Topic	Place	Period
1	Orientation		UGC – Academic Staff College, University of Madras	09/07/2009 to 05/08/2009
2	Refresher	Mathematics	UGC – Academic Staff College, Bharathidasan University, Tiruchirappalli.	10/11/2010 to 30/11/2010
3	Refresher	Mathematics	UGC – Academic Staff College, Bharathidasan University, Tiruchirappalli.	13/07/2018 to 02/08/2018
4	Orientation	NSS Program Officers	National Service Scheme - Empanelled Training Institution Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore.	24/07/2019 to 30/07/2019

14. International Publications :

Sl. No.	Title of the Article	Name of the Journal	Volume, Number, pages and Year
1	On Ternary Quadratic Diophantine Equation $7x^2 - 4y^2 = 12z^2$	JASC Journal of Applied Science and Computations	Vol. VI, Issue III, Pp. 25 – 30, March 2019 ISSN NO. 1076 - 5131
2	On the Positive Pell Equation $y^2 = 42x^2 - 6$	International Journal of Engineering & Scientific Research	Vol.6, Issue. 3, Pp. 66 – 72, March 2018 ISSN : 2347B- 6532 Impact factor: 6.660
3	On the Negative Pell Equation $y^2 = 3x^2 - 2$	International Journal of Statistics and applied Mathematics	Vol.3, No.2, Pp. 37 – 40, 2018 ISSN: 2456 – 1452

4	On ternary Quadratic Diophantine Equation $6(x^2 + y^2) - 11xy + x + y + 1 = 24z^2$	International Journal of Advanced Research and Development	Vol.3, Issue1, January 2018, Pp. 78 – 86 ISSN: 2455 – 4030 Impact Factor: RJIF 5.24
5	On the Positive Pell Equation $y^2 = 5x^2 + 4$	IOSR Journal of Mathematics	Vol. 13, Issue. 5 Ver.1 Sep. – Oct. 2017, Pp. 65 – 69,e – ISSN : 2278 – 5728, p – ISSN : 2319 – 765x,
6	On the Negative Pell Equation $y^2 = 42x^2 - 6$	International Journal of Applied Research	Vol. 3, Issue 7, Pp. 954 – 959, 2017
7	On the System of Double Equations $N_1 - N_2 = 4k + 2(k > 0), N_1N_2 = (2k + 1)\alpha^2$	International Journal of Engineering and Applied Sciences	Vol. 4, Issue 6, Pp. 44 – 45, June 2017
8	Observations on the Cone $15x^2 - 32y^2 = 7z^2$	Bulletin of Mathematics and Statistics Research	Vol. 4, issue 4, November 2016
9	On The Ternary Quadratic Diophantine Equation $z^2 = 13x^2 + y^2$	Roots International journal of Multidisciplinary Researches	Vol. 3, Special issue 1, Pp. 59 – 62, October 2016, ISSN: 2349 – 8684 Impact factor 0.811
10	On The Ternary Quadratic Diophantine Equation $z^2 = 7x^2 + y^2$	International Journal of Emerging Technologies in Engineering Research	Volume 4, Issue 9,Pp. 6 – 7, September (2016) ISSN: 2454-6410 Impact 2015 : Factor 4.225
11	On the Ternary Quadratic Diophantine Equation $3x^2 + y^2 - 5xy = 60z^2$	International Journal of Applied Research	Vol.1, No. 5, pp. 234 – 238, 2015 ISSN Print: 2394-7500 ISSN Online: 2394-5869 Impact Factor : RJIF 5.2
12	On the Ternary Quadratic Diophantine Equation $9z^2 = 11x^2 - 2y^2$	International Journal of Multidisciplinary Research and Development	Vol. 2, No.4, Pp. 215 – 219, 2015 e-ISSN: 2349 -4182 P-ISSN:2349 – 5979 Impact factor : RJIF 5.72
13	On Ternary Quadratic Diophantine	International Journal of	Vol.1, No. 11, Pp.

	Equation $8x^2 + 5y^2 = 143z^2$	Innovative Research Technology	169 – 172, 2014
14	Integral Points on the Hyperbola $2x^2 - 3y^2 = 5$	American Journal of Applied Mathematics and Mathematical Sciences	Vol. 1, No. 1, Pp. 1 – 4, 2012
15	Integral Solutions of Quadratic Equation With Five Unknowns $xy + 2z(z + w) = U^2$	Archimedes Journal of Mathematics	Vol. 1, No. 1, Pp. 1 – 6, 2011
16	Parametric Solutions of Multi-degreed Equalities $x_1, x_2, x_3 = y_1, y_2, y_3$	Reflections des ERA – JMS	Vol. 6, No. 3, Pp.267 – 272, 2011 ISSN – 0973 - 4597
17	Observations on the Quadratic Equation With Four Unknowns $xy = 2(z + w)$	International Journal of Mathematical Sciences	Vol. 9, No. 1 – 2, Pp. 159 – 164, 2010
18	Ternary Quartic Diophantine Equation $2^{4n+3}(x^3 - y^3) = z^4$	Impact Journal of Science and Technology	Vol. 4, No. 1, Pp. 57 – 60, 2010 ISSN – 0973-8290
19	Integral Solutions of Ternary Cubic Diophantine Equation $x^2 + xy + y^2 = z^3$	Impact Journal of Science and Technology	Vol. 3, No. 3, Pp. 29 – 37, 2009 ISSN – 0973-8290
20	On the binary Non – Homogeneous Quartic Equation $x^4 - (2y + c)x^2 - bx + y^2 - ay - d = 0$	Reflections des ERA- JMS	Vol.2, Issue 1, Pp. 9 – 14, 2008
21	Pythagorean Triangle with Triangular number as a leg	Impact Journal of Science and Technology	Vol.2, Issue 4, Pp. 195 – 199, 2008
22	Integral Solutions of $x^3 + x + y^3 + y = 4z(z - 2)(z + 2)$	Impact Journal of Science and Technology	Vol.2, Issue 2, Pp. 65 – 69, 2008
23	Integral Solutions of Homogeneous Quadratic with four unknowns $Z(X + Y) = W^2$	Impact Journal of Science and Technology	Vol.2, Issue 1, Pp. 31 – 35, 2008
24	An Interesting Diophantine Problem	International Journal of Mathematics, Computer Sciences and Information Technology	Vol.1, Issue 2, Pp. 205 – 209, 2008
25	Integral Solutions of $(x - 1)(x - 2) + y(2x + y - 1) = 2z$	International Journal of Mathematics, Computer Sciences and Information Technology	Vol. 1, No.2, Pp.185-190, July-December 2008
26	Integral Solutions of $\sum_{i=1}^3 x_i^h =$	Pure and Applied Mathematika Sciences	Vol.LXVI, No.1-2, September 2007

	$\sum_{i=1}^3 X_i^h, h = 1,2$		
27	Integral Solutions of $a(x^2 - kx + 1) - b(y^2 - ky + 1) = 0$	Impact Journal of Science and Technology	Vol.1(2),Pp.35-40,2007
27	Integral Solutions of $7x^2 + 8y^2 = 9z^2$	Pure and Applied Mathematika Sciences	Vol. LXVI,No.1-2,September 2007
28	Integral Solutions of $ka(x^2 + y^2) + bxy = 4ka^2z^3$	Bulletin of Pure and Applied Sciences	25E, 2, Pp. 401 – 406, 2006
29	Complex Integer Solutions of $x, y = n u, v (n = 1, 5)$	Advanced in theoretical and Applied Sciences	1, 1, Pp. 91 – 95, 2006
30	On the System of Binary Quadratic Diophantine Equations $a(x^2 - y^2) + N = u^2, b(x^2 - y^2) + N = v^2$	Pure and Applied Mathematika Sciences	LXIII,1-2,59-63,Mar 2006
31	On Ternary Quadratic Homogenous Equation $(x - y)(x - z) + y^2 = 0$	Bulletin of Pure and Applied Sciences	24E, 1, 25-28, 2005
32	On the System of Double Equations $x^2 + y^2 - N = u^2, x^2 - y^2 - N = v^2$	Bulletin of Pure and Applied Sciences	23E,2,279-280,2004

15. National Publications :

Sl. No.	Title of the Article	Name of the Journal	Volume, Number, pages and Year
1	On the Diophantine Equation $3x^2 + xy = 14$	ActaCienciaIndica	Vol.2, Issue 2, Pp. 65 – 69, 2007
2	On Lenekal Numbers	Antartica J. Math.,	Vol.4, Issue 1, Pp.35 – 39, 2007
3	On the System $x + y = u^2, x - y = v^2, x^2 - y^2 = w^3$	ActaCienciaIndica	Vol. XXXIII M,No.1,043,2007
4	A Remarkable Transcendental Equation	Antartica J. Math.,	Vol.3, Issue 2, Pp. 209 – 215, 2006
5	On the System $x \pm y = \text{squares}, xy = \text{cube}$	ActaCienciaIndica,	Vol. XXXII M,No.3,1469,2006
6	Integral Solutions of the system $a(x^2 - y^2) + N_1^2 = u^2, b(x^2 - y^2) + N_2^2 = v^2$	ActaCienciaIndica	XXXI M,2,325-326,2005
7	On a pair of Simultaneous Diophantine Equations $X + Y = q^2, X^2 + Y^2 = P^4$	ActaCienciaIndica	XXXI M,4,1061-1062,2005
8	On Ternary Quadratic Homogenous	Bulletin of Pure and	24E, 1, 25-28, 2005

	Equation $(x - y)(x - z) + y^2 = 0$	Applied Sciences	
9	Polynomial Solutions for the Diophantine Equation $Y^2 = (\lambda^2 b^2 + 2\lambda a - 1)X^2 + (-1)^k(\lambda^2 b^2 + 2\lambda a - 2)^k(a^2 + b^2)$	ActaCienciaIndica	XXX M,4,811-812,2004
10	A Remarkable Observation	ActaCienciaIndica	XXX M,3,655-656,2004
11	A method of Obtaining Pythagorean Triangles	ActaCienciaIndica	XXX M,3,519-520,2004
12	Two Interesting Problems on Inequalities	ActaCienciaIndica	XXX M,1,79-80,2004
13	On the System $b - a = d^2, b^3 - a^3 = y^2$	ActaCienciaIndica	XXIX M,4,749-750,2003
14	Note on the Diophantine Equation $y(y + 2) = 3(x + 1)$	ActaCienciaIndica	XXIX M,2,273-274,2003
15	Note on the Double Equations $\sum_{i=1}^3 x_i^h = \sum_{i=1}^3 X_i^h, h = 1,2$	ActaCienciaIndica	XXIX M,1,149-150,2003
16	Note on the Double Equations $\sum_{i=1}^3 x_i^h = \sum_{i=1}^3 X_i^h, h = 1,3$	ActaCienciaIndica	XXIX M,1,41-42,2003
17	A Remark on $X + Y = U^2, X - Y = V^2, XY + 1 = W^2$	ActaCienciaIndica	XXVIII M,4,699-700,2002
18	Note on the Double Equations $Y - X = U^2, Y^2 + X^2 = U^6$	ActaCienciaIndica	XXVIII M,4,697-698,2002
19	Note on the Double Equations $X + Y + Z = N, X^2 + Y^2 + Z^2 = N^2$	ActaCienciaIndica	XXVIII M,4,571-572,2002

16. Technical Talks Delivered :

S.No.	Resource Person	Title	Place
1.	One day State level Seminar	Pythagorean Triangle : A Treasure House	Govt. Arts College for Women(A), Pudukkottai.

17. Seminar / Symposia / Workshop Attended :

Sl. No.	International /National Level	Topic	Title of the paper presented	Date	Venue
1	State level	Oppertunities and Chaengesbin the Emerging spaces of Hiher	Attended	4/09/2019	IQAC, Sri Meenakshi Govt. Arts College for Women(A), Madurai

		Education			
2	International Conference	International Conference on Recent Advances in Pure and Applied Mathematics	Some Sums Formulae and product of terms of Jacobsthal and Jacobsthal – lucas numbers	27/08/2019 & 28/08/2019	Raja Doraisingam Govt. Arts College, Sivagangai.
3	State level	State level Workshop on Latex and Mapple	Attended	23/02/2018	NadarMahajanaSangam S. VellaichamyNadar College
4	State Level Workshop	State level Workshop	Techniques in Abstract Mathematics	07/09/2017 & 08/09/2017	AyyaNadarJanakiAmmal College, Sivakasi
5	National Conference		Integral Points on $15x^2 - 32y^2 = 7z^2$	22/12/2016	Shrimati Indira Gandhi Coellge for Women, Trichy
6	National Conference	Mathematical Science and Applications	On The Ternary Quadratic Diophantine Equation $z^2 = 13x^2 + y^2$	1/10/2016	Mangaiyarkarasi College of Arts and Science, Madurai
7	International Conference	International Conference on Mathematical Modeling and Applied Soft Computing	Integral Points on the Hyperbolic Paraboloid $5x^2 - 2y^2 = 2z$	11/7/2012,12/07/2012 &13/07/2012	Coimbatore Institution of Technology,Coimbatore
8	International Conference	International Conference on Number Theory and Modular Forms	Integral Solutions of $x^2 - xy - ky^2 = z^2$	20/12/2008 to 22/12/2008	Sastra University , SrinivasaRamanujan Centre, Kumbakonam
9	National Conference	Recent Developments in Mathematics and its Applications	Integral Solutions of $x^3 + x + y^3 + y = 4z(z - 2)(z + 2)$	28/03/2008 & 29/03/2008	Government Arts College for Women , Pudukkottai
10		Mathematics	Integral		Thiagarajar College of

	AICTE,CSIR ,DST and TCS Sponsored National Conference	and its Applications	Solutions of $(x - 1)(x - 2) + y(2x + y - 1) = 2z$	27/09/2007 to 29/09/2007	Engineering , Madurai
11	State level Seminar	Computer Oriented Mathematical Techniques 2007	Special Patterns of Pythagorean Triangles	10/08/2007 & 11/08/2007	Shrimati Indira Gandhi College , Trichy
12	National Seminar	Intellectual Perspectives of Mathematics	Pythagorean Triangle with Triangular Number as a leg	05/04/2007	Cauvery College for Women , Trichy
13	National Conference	Applications of Mathematics	A Remarkable Transcendental Equation	22/03/2007 & 23/03/2007	Periyar E.V.R. College , Trichy
14	National Seminar	Emerging Trends of Mathematical Techniques and their Applications in Computer Science	The Integral Solutions of $49X^2 + 50Y^2 = 51Z^2$	23/02/2007 & 24/02/2007	Shrimati Indira Gandhi College , Trichy
15	National Seminar	Applications in Analysis	On Coupled Squares $x(1 + y) = v^2$, $y(1 + x) = u^2$	16/02/2007	TheivanaiAmmal College for Women , Villupuram
16	National Symposium	Mathematical Methods and Applications	Complex Integer Solutions of $x, y = u, v(1,5)$	22/12/2005	Indian Institute of Technology Madras , Chennai
17	UGC Sponsored National Seminar	Recent Trends in Applied Mathematics	On a Pythagorean Problem	15/10/2005 & 16/10/2005	Gobi Arts and Science College , Gobichettipalayam
18	UGC Sponsored National Seminar	Recent Advances in Analysis and Applications	On a Pythagorean Problem	22/08/2005 & 23/08/2005	KandaswamiKandar's College , Velur
19	UGC Sponsored National	Development in Mathematical	On Lenakel Numbers	08/04/2005 & 09/04/2005	KunthavaiNaachiar Government Arts College for Women , Thanjavur

	Seminar	Applications			
20	National Symposium	Mathematical Methods and Applications	Integral solutions of $(x - y)(x - z) + y^2 = 0$	22/12/2004	Indian Institute of Technology Madras , Chennai
21	NBHM Sponsored National Seminar	Algebra ,Number theory and Applications to Coding and Cryptanalysis	Pythagorean Triangle-A Treasure House	16/09/2004 to 18/09/2004	Little Flower College , Guruvayoor
22	National Seminar	Recent Trend of Research in Mathematics and its Applications	Equality of Triangular Numbers with Special M - gonal Numbers	01/02/2004 & 02/02/2004	A.VeeriyaVandaiyar Memorial Sri Pushpam College, Poondi
23	UGC Sponsored State level Seminar	Mathematics- An Elixir For all Sciences	An Interesting Pythagorean Problem	10/12/2003 & 11/12/2003	SeethalakshmiRamaswami College , Trichy
24	UGC Sponsored National Seminar	Recent Advances in Pure and Applied Mathematics	An Interesting Pythagorean Problem	23/08/2003	Kandaswami College ,Velur

18.GUIDANCE FOR M.Phil:

S.No.	NAME OF THE STUDENT	M.Phil	UNIVERSITY	YEAR
1.	K. Vani	M.Phil Mathematics	Madurai Kamaraj University	2018

19.GUIDANCE FOR Ph.D UNDER MADURAI KAMARAJ UNIVERSITY,MADURAI

S.No.	NAME	TITLE	STATUS
1	B. Malini Devi	A study on Diophantine Equations and its Applications	Ongoing

20.OTHER RESPONSIBILITIES HOLD IN SERVICE(CURRENT/ PREVIOUS):

S.No.	NAME OF THE SERVICE/COMMITTEE	PLACE	PERIOD
1.	Placement Committee member	SMGAC, Madurai	2013 – 14 2014 - 15
2.	National Service Scheme – Programme Officer	SMGAC, Madurai	2018 to tilldate

21. OTHER RESPONSIBILITIES HOLD IN OTHER INSTITUTIONS:

S.No.	NAME OF THE SERVICE/COMMITTEE	PLACE	PERIOD
1	Sports Committee member	Govt. Arts College for Women(A), Pudukkottai	2009 - 2010

22. RESEARCH PROJECTS

Academic Year	CONFERENCE			Attended / Presented	Journal Publications		Refresher / Orientation	Project	Resource Person
	State	National	International		National	International			
2019	1	-	1		-	1	Orientation		
2018	1	-	-		-	3	Refresher		
2017	1	-	-		-	3			
2016	-	2	-		-	3			
2015	-	-	-		-	2		UGC Minor Research Project	
2014	-	-	-		-	1			
2013	-	-	-		-	-			
2012	-	-	1		-	1			
2011	-	1	-		-	2			1
2010	1	-	-		-	2	Refresher		
2009	-	-	-		-	1	Orientation		
2008	-	1	1		-	6			
2007	1	5	-		3	3			
2006	-	-	-		2	3			
2005	-	4	-		3	1			
2004	-	3	-		4	1			
2003	-	2	2		4				
2002	-	-	-		3				