

## Curriculum Vitae



Name	Dr.A.kavitha
Designation	Assistant Professor
Qualification	M.Sc., M.Phil., Ph.D, (SET)
Address	43A1/1, Mudaliar Street, Woraiyur, Trichy. 620 003.
Mobile Number	9952667260
E mail id	<a href="mailto:kavithabalasubramanian63@yahoo.com">kavithabalasubramanian63@yahoo.com</a>
Area of Specialization	Number Theory

## Working Experience

- ✚ Worked as lecturer in Maharaja college of Arts and Science for Women Erode from 16.09.1999 to 29.01.2003
- ✚ Worked as a lecture in Dhanalakshmi Srinivasan College of Arts and Science (W) Perambalur from 30.01.2003 to 31.03.2007
- ✚ Working as a Assistant Professor in Shrimati Indira Gandhi college Trichy since 16.06.2008

## Academic Profile

### Ph.D

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College Name and Address	Shrimati Indira Gandhi College Trichy 620002
Year	October 2017
Title of the Thesis	Multi-Variate Higher Degree Polinomial Equations and Special Dio-Qudruples

### SET

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Year of passing	February 2016
University	Mother Teresa Women's University, Kodaikanal

## M.Phil

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Year of Passing	November 2002
University	Madurai kamaraj university, Madurai

## Post Graduate

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Qualifying Exam	M.Sc Mathematics
Qualifying marks in Percentage	88% Outstanding
Year of Passing	1999 April
College name and Address	Seethalakshmi Ramaswami College Trichy

## Under Graduate

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Qualifying Exam	B.Sc mathematics
Qualifying marks in percentage	77% Distinction
Year of passing	April 1997
College Name and Address	Cauvery college for Women, Trichy

## Technical qualification

- Diploma in computer Applications
- Type writing in English

## Publication Details

### National level:

1. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, Observations on the Hyperbola , Archimedes J. Math, Vol. 3(1), Pp. 31-34, 2013, **ISSN: 2278-0858.**
2. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, Integral points on the Hyperbola , Diophantus J. Maths, Vol. 1(7), Pp. 338-340, 2014. **ISSN: 2348-7968**
3. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, Observations on the Hyperbola , Discovery, Vol. 4, No. 10, Pp. 22-24, April 2013, **ISSN:2278-5469.**
4. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, Integral points on the homogeneous Cone , Diophantus J. Math., Vol. 1(2), Pp. 127-136, 2012, **ISSN: 2278-1714.**
5. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, Observation on the ternary cubic equation , Antarctica J. Math., Vol. 10(5), Pp. 453-460, 2013, **ISSN: 0972-8643.**

6. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, Observations on the homogeneous cubic equation with four unknowns , Bessel J. Math., Vol. 4(1), Pp. 1-6, 2014, **ISSN: 2278-0858**.
7. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, On the cubic equation with five unknowns , Archimedes J. Math., Vol. 4(1), Pp. 19-25, 2014, **ISSN: 2278-0858**.
8. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, Observations on , Cayley J. Math., Vol. 3(1), Pp. 1-5, 2014, **ISSN: 2278-1749**.
9. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, On the quintic equation with four unknowns , Bessel J. Math., Vol. 3(2), Pp. 187-193, 2013, **ISSN: 2278-0858**.
10. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, On the transcendental equation , Diophantus J. Math., Vol. 2(2), 77-85, 2013. **ISSN: 2278-1714**

#### International Level:

1. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, On the integral solutions of the binary quadratic equation , Scholars Journal of Engineering and Technology, Vol. 2(2A), Pp. 156-158, 2014, **ISSN: 2347-9523**.
2. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, On the integral solutions of the binary quadratic equation , Bulletin of mathematics and Statistics research, Vol. 2, Issue 1, Pp. 42-46, 2014, **ISSN: 2348-0580**.

3. M.A.Gopalan, S.Vidhyalakshmi, A.Kavitha and D.Mary Madona, On the ternary quadratic diophantine equation , International Journal of Engineering Sciences and Management, Vol. 5, Issue 2, Pp. 11-18, April – June 2015, **ISSN:2277-5528**.
4. S.Vidhyalakshmi, M.A. Gopalan and A.Kavitha, Observations on the Hyperboloid of two sheets , International Journal of Latest Research in Science and Technology, Vol. 2, Issue 2, Pp. 84-86, March - April 2013, **ISSN:2278-5299**.
5. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, On the binary quadratic diophantine equation , International Journal of Scientific Engineering and Applied Science, Vol. 1, Issue 4, Pp. 222-225, June-2015, **ISSN: 2395-3470**.
6. S.Vidhyalakshmi, M.A. Gopalan and A.Kavitha, Observations on the ternary cubic equation , International Journal of computational Engineering Research, Vol. 03, Issue 5, Pp. 17-22, May 2013, **ISSN: 2250-3005**.
7. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, Observations on , International Journal of Mathematical Sciences and Applications, Vol. 3, No. 1, January - June 2013, **ISSN: 2230-9888**.
8. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, On the ternary cubic equation , International Journal of Information Research and review, Vol. 1, Issue 10, Pp. 099-101, October 2014, **ISSN: 2349-9141**.

9. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, Observations on homogeneous cubic equation with four unknowns , International Journal of Modern engineering Research, Vol. 3, Issue 3, Pp. 1487-1492, June 2013, **ISSN: 2249-6645**.
10. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, Integral points on the bi-quadratic equation with three unknowns , International Journal of Math. Sci. & Engg. Appls., Vol. 7, No. VI, Pp. 81-84, November 2013, **ISSN: 0973-9424**.
11. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, Integral solutions on the bi-quadratic equation with four unknowns , IOSR Journal of Mathematics, Vol. 7, Issue 4, Pp. 11-13, Jul-Aug 2013, **ISSN:2278-5728**.
12. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, On the integral points of the bi-quadratic equation with four unknowns , Scholars Journal of Physics, Mathematics and Statistics, Vol. 1, Issue 2, Pp. 45-47, 2014, **ISSN: 2393 -8056**.
13. M.A.Gopalan, S.Vidhyalakshmi A.Kavitha and E.Premalatha, On the homogeneous bi-quadratic equation with five unknowns , International Archive of Applied Sciences and Technology, Vol. 4[3], Pp. 37-44, September 2013, **ISSN: 0976-4828**.
14. S.Vidhyalakshmi, M.A. Gopalan and A.Kavitha, Observations on the bi-quadratic with five unknowns , International Journal of Engineering Science & Mathematics, Vol. 2, Issue 2, Pp. 192-200, June 2013, **ISSN: 2320-0294**.

15. M.A.Gopalan, A.Kavitha and G.Thamaraiselvi Observation on the bi-quadratic equation with five unknowns , International Journal of Multidisciplinary Research and Development, Vol. 2, Issue 6, Pp. 333-337, June 2015, **ISSN: 2349-5979**.
16. M.A.Gopalan, A.Kavitha and R.Kiruthika, Observations on the bi-quadratic equation with five unknowns , International Research Journal of Engineering and Technology, Vol. 02, Issue 03, Pp. 1562-1573, June 2015, **ISSN: 2395-0072**.
17. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, Integral points on the bi-quadratic equation with six unknowns , Impact Sci. Tech., Vol. 9, No. 3, 1-6, 2015, **ISSN: 0973-8290**.
18. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, On the non-homogeneous ternary quintic equation , International Journal of Mathematical Trends and Technology, Vol. 14, Number 1,Pp.55-58, Oct. 2014, **ISSN: 2231-5373**.
19. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, On the non homogeneous ternary quintic equation , Research Inveny: International Journal of Engineering and Science, Vol. 3, Issue 5, Pp. 54-57, July 2013, **ISSN: 2278-4721**.
20. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, Observations on the quintic equation with four unknowns , Impact J. Sci. Tech., Vol. 7, No. 2, Pp. 15-19, 2013, **ISSN : 0973-8290**.



21. S.Vidhyalakshmi, A.Kavitha, E.Premalatha and M.A. Gopalan, On the quintic equation with five unknowns , international Journal of Current Research, Vol. 5, Issue 06, Pp. 1437-1440, June 2013, **ISSN: 0975-833X**.
22. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, On the quintic equation with five unknowns , IJOER, Vol. 1, Issue 2, Pp. 279-282, 2013, **ISSN: 2321 -7758**.
23. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, On The non-homogeneous sextic equation with three unknowns , Universe of Emerging Technologies and Science, Vol. I, Issue VII, Pp. 1-3, December 2014, **ISSN: 2349-655X**.
24. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, Integral solutions of the sextic equation with three unknowns , International Journal of Innovation Sciences and Research, Vol. 4, No. 7, Pp. 323-328, July 2015, ISSN: 2351-8014.
25. S.Vidhyalakshmi, M.A. Gopalan and A.Kavitha, Observations on the non-homogeneous sextic equation with four unknowns , International Journal of Innovative Research in Science, Engineering and Technology, Vol. 2, Issue 5, Pp.1301-1307, May 2013, **ISSN: 2319-8153**.
26. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, Observations on the non-homogeneous sextic equation with six unknowns , International Journal of Advanced Research in Science, Engineering and Technology, Vol. 1, Issue 5, Pp. 259-262, December 2014, **ISSN: 2350-0328**.

27. M.A.Gopalan, A.Kavitha and S.Vidhyalakshmi Integral solutions of the non homogeneous heptic equation with five unknowns , International Journal of Recent Scientific Research, Vol. 6, Issue 2, Pp. 2807-2809, February 2015, **ISSN: 0976-3031**.
28. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, Integral solutions of the heptic equation with five variables , International Journal of Innovative Research in Technology, Vol. 1, Issue 11, Pp. 297-302, 2014, **ISSN: 2349-6002**.
29. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, Integral solutions of the heptic equation with five unknowns , International Journal of Applied Research, Vol. 1(3), Pp. 82-85, 2015, **ISSN: 2394-7500**.
30. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, Integral solutions of the heptic equation with five unknowns , International Journal of Engineering and Applied Sciences, Vol. 2, Issue 4, Pp. 33-35, April 2015, **ISSN: 2394-3661**.
31. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, Integral solutions of the octic equation with five unknowns , International Journal of Mathematics And its Applications, Vol. 3, Issue 4-A, Pp. 1-7, 2015, **ISSN: 2347-1557**.
32. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, Integer solutions of the eighth degree equation with seven variables , International Journal of Mathematical Archive, Vol.6(8), Pp.1 - 4, 2015, **ISSN: 2229-5046**.

33. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, On special transcendental equation , International Journal of Applied Mathematical Sciences, Vol. 6, Number 2, Pp. 135-139, 2013, **ISSN: 0973-0176**.
34. S.Vidhyalakshmi, M.A. Gopalan and A.Kavitha, An exclusive transcendental equation , International Journal of Pure and Applied Mathematical Sciences, Vol. 6, Number 4, Pp. 305-311, 2013, **ISSN: 0972-9828**.
35. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, Construction of strong rational diophantine triples with property using the solutions of special three dimensional surfaces, Global Journal of Engineering Science and Research, Vol. 2(9), Pp. 28-31, Sep. 2015, **ISSN: 2348-8034**.
36. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, On a family of strong rational diophantine quadruples, International Journal of Innovative Research and Review, Vol. 2(30), Pp. 18-12, July-September 2014, **ISSN: 2347-4424**.
37. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, On diophantine quadruples with property , International Journal for Mathematics, Vol. 1, Issue 8, Pp. 1-4, August 2015, **ISSN:2229-5046**.
38. M.A.Gopalan, S.Vidhyalakshmi and A.Kavitha, Special dio-quadruples with property , The International Journal of Science & Technoledge, Vol. 2, Issue 5, Pp. 51-52, May 2014, **ISSN: 2321-919X**.

39. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, Construction of  $\pi$ -dio quadruples, International Research Journal of Mathematics, Engineering & It, Vol.1, issue.4, Pp.16 - 20, August 2014, **ISSN: 2349-0322**.
40. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, An application of second order Ramanujan Numbers, Journal of Computing Technologies, Vol. 4, Issue 8, Pp. 40-44, 2015, **ISSN: 2278-3814**.
41. S.Vidhyalakshmi, A.Kavitha and M.A. Gopalan, Diophantine problem on integer triple in Arithmetic Progression, International Journal of Pure Mathematical Sciences, Vol.2, No.2, April 2016, pp.36-42, April 2016, **ISSN: 1314-3395**.
42. A.Kavitha and V.Kiruthika, On the positive pell equation  $x^2 - dy^2 = 1$ , International Journal of Emerging Technologies in Engineering Research (IJETER) Volume 5, Issue 3, March (2017), **ISSN: 2454-6410**.
43. A.Kavitha and P.Lavanya, On the positive pell equation  $x^2 - dy^2 = 1$ , International Journal of Emerging Technologies in Engineering Research (IJETER) Volume 5, Issue 3, March (2017), **ISSN: 2454-6410**.
44. A.Kavitha and A.Priya, Integer solution of the pell equation  $x^2 - dy^2 = 1$ , International Journal of Emerging Technologies in Engineering Research (IJETER) Volume 5, Issue 3, March (2017), **ISSN: 2454-6410**.

45. A.Kavitha and D.Licy, Integral solutions of the quadratic Diophantine equation, International Journal of Emerging Technologies in Engineering Research (IJETER) Volume 5, Issue 2, February. (2017), **ISSN: 2454-6410**.
46. A.Kavitha and K.Janani, On the Positive Pell Equation , International Journal for Research in Applied Science & Engineering Technology(IJRASET), Volume 7 issue III, Mar.2019. **ISSN:2321-9653**.
47. A.Kavitha and K.Megala On the Positive Pell Equation , International Journal for Research in Applied Science & Engineering Technology(IJRASET), Volume 7 issue III, Mar.2019. **ISSN:2321-9653**.
48. A.Kavitha and B.kiruthika, On Homogeneous cubic Diophantine equation with Four unknowns Journal of Mathematics and Informatics Volume 10, 149-156, 2017 **ISSN: 2349-0640**
49. A.kavitha and R.Umamaheswari Integer Solution of the Homogeneous Bi-quadratic Diophantine Equation with Five unknowns, , Journal of Mathematics and Informatics Volume 11, 55-61,December 2017 **ISSN:2349-0632**.
50. A.Kavitha and P.Sasipriya, A Ternary Quadratic Diophantine Equation Journal of Mathematics and Informatics Volume 11, 103-109,December 2017 **ISSN:2349-0632**.
51. A.Kavitha and S.Ramya, A On the positive Pell Equation Journal of Mathematics and Informatics Volume 11, 111-117,December 2017 **ISSN:2349-0632**

52. A.Kavitha and B.kiruthika, Observation on the hon-homogeneous Binary quadratic Diophantine equation , IJETER, Vol.1,issue.1July 2015
53. A.Kavitha and K.Janani, On the negative pell equation , IJETER, Vol.6, issue.3 march 2018. A.Kavitha and R.Umamaheswari, On Ternary Quadratic Diophantine equation ,IJETER, Volume.6, issue5, May 2018.

## PAPERS PRESENTED

- S.Vidhyalakshmi and A.Kavitha, On the integer solutions of the binary quadratic equation , Paper Presented at the International Conference on Mathematical Methods and Computation, (Jamal Mohammed college, Trichy) Jamal Academic Research Journal, Pp.266 - 269, Feb-2014, **ISSN: 0973-0303**.
- S.Vidhyalakshmi, A.Kavitha and R.Presenna, On ternary bi-quadratic equation , Paper presented at the International conference on Mathematical Methods and Computation, (Jamal Mohammed College, Trichy) Jamal Academic Research Journal, Pp. 283-286, January -2015, **ISSN: 0973-0303**.
- M.A.Gopalan, S.Aarthy Thangam and A.Kavitha, On the homogeneous sextic equation with five unknowns ternary bi-quadratic equation , Paper presented at the International conference on Mathematical Methods and Computation, (Jamal Mohammed College, Trichy) Jamal Academic Research Journal, Pp. 291-295, January 2015, **ISSN: 0973-0303**.

- M.A.Gopalan A.Kavitha, and R.Kiruthika, On the ternary quadratic diophantine equation , Proceedings of the National Conference on Modern Aspects of Theoretical and Applied Mathematics, PSNA College of Engineering and Technology, Dindigul, Pp. 15-21, April 2015.
- M.A.Gopalan, A.Kavitha and G.Thamaraiselvi, On the ternary quadratic diophantine equation , Proceedings of the National Conference on Modern Aspects of Theoretical and Applied Mathematics, PSNA College of Engineering and Technology, Dindigul, Pp. 25-33, April 2015.
- M.A.Gopalan and A.Kavitha, On the homogeneous cone , Paper presented at the International conference on Discrete and Computational Mathematics (The Gandhigram Rural institute-Deemed University Gandhigram),

### Conferences /Workshop Attended

- National Seminar on Recent Developments in Applied mathematics at St.Joseph's college (Autonomous) Trichy-2 from 2/12/2004 to 03/12/2004
- State level Seminar on emerging Trends in Mathematical Methods at Dhanalakshmi Srinivasan College of Arts & Science for Women, Perambalur from 24/02/2005 to 25/02/2005
- National level Seminar on RECKON-2005 in Navarasam Arts & Science college for Women, Erode on 5/02/2005.

- A Workshop on Enhancing Teaching Skills at Bishop heber College, Trichy from 21.11.2012 to 23.11.2012.

## Books Published

- ❖ Integer Triples in Arithmetic Progression ISBN 9781521001783
- ❖ Problems on Integer Quadruples in Arithmetic Progression ISBN: 9783330333734
- ❖ Advanced mathematics Theory and Applications, Research india publications, ISBN 9789384443207 (One Chapter)

No.of Scholars who had taken their degrees: M.Phil 23

No of Scholars who are being Guidede M.Phil 3



## Other Informations

- Actively served as a Additional Chief Superintendent for Conducting the Bharathidasan University Examinations during the year 2003-2007

## Declaration

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**I hereby declared that all the above information are true to the best of my knowledge and belief.**