

PROFILE

Name: Dr. V.Krithika

Designation: Assistant Professor

Qualification: M.Sc.,M.Phil.,Ph.D.,

Date of Joining: 23/08/2021



Publications:

1. Vijayasankar.A., Gopalan.M.A., Krithika. V., *Three curious Diophantine problems*, JP Journal of Mathematical Sciences, Vol.18, Iss.1 & 2, Pp:1-10, (2016)., ISSN No: 2248-9851. <http://www.iphsci.com>
2. Vijayasankar.A., Gopalan.M.A., Krithika. V., *Special Dio-quadruples with property $D(2)$* , International Journal of Applied Research, Vol.2, Iss.9, Pp:719-720, (2016)., ISSN No: 2394-5869. www.allresearchjournal.com
3. Vijayasankar.A., Gopalan.M.A., Krithika. V., *On the Sextic Diophantine equation with five unknowns $x^4 - y^4 = 61(z^2 - w^2)p^4$* , Open Journal of Applied and Theoretical Mathematics, Vol.2, Iss.3, Pp:18-26, (September 2016)., ISSN No: 2455-7102. <http://theojal.com/ojatm/>
4. Vijayasankar.A., Gopalan.M.A., Krithika. V., *On a Diophantine problem*, International Journal of Multidisciplinary Research and Development, Vol.3, Iss.9, Pp:137-139, (September 2016)., ISSN No: 2349-4182. www.allsubjectjournal.com
5. Vijayasankar.A., Gopalan.M.A., Krithika. V., *On a Diophantine Problem*, Global Journal for Research Analysis, Vol.6, Iss.5, Pp:550-552, (May 2017)., ISSN No: 2277-8160. www.worldwidejournals.com
6. Vijayasankar.A., Gopalan.M.A., Krithika. V., *Observations on $x^2 + y^2 + z^2 = w^2$* , International Journal of Recent Trends in Engineering and Research, Vol.3, Iss.5, Pp:378-381, (May 2017)., ISSN No: 2455-1457. www.ijrter.com
7. Vijayasankar.A., Gopalan.M.A., Krithika. V., *On the binary quadratic equation $x^2 - 18xy + y^2 + 32x = 0$* , International Journal of Emerging Technologies in Engineering Research, Vol.5, Iss.7, Pp:71-75, (July 2017)., ISSN No: 2454-6410. www.ijeter.everscience.org

8. Vijayasankar.A., Gopalan.M.A., Krithika. V., *On the Negative Pell equation $y^2 = 112x^2 - 7$* , International Journal of Engineering and Applied Statistics, Vol.4, Iss.7, (July 2017)., ISSN No: 2394-3661. www.ijeas.org
9. Gopalan.M.A., Krithika .V., Vijayasankar.A., *Integral solutions of non-homogeneous quintic Diophantine equation with five unknowns $3(x^4 - y^4) = 26(z^2 - w^2)p^3$* , International Journal of Research – Granthaalayah, Vol.5, Iss.8, Pp:25-33, (August 2017)., ISSN No: 2350-0530. www.granthaalayah.com
10. Vijayasankar.A., Gopalan.M.A., Krithika. V., *On the Sextic Diophantine equation with five unknowns $2(x + y)(x^3 - y^3) = 61(z^2 - w^2)p^4$* , Asian Journal of Applied Science and Technology, Vol.1, Iss.7, Pp:21-24, (August 2017)., ISSN No: 2456-883X. www.ajast.net
11. Vijayasankar.A., Gopalan.M.A., Krithika. V., *Three sequences of Special Dio Triple*, Research Inveny : International Journal of Engineering and Science, Vol.6, Iss.9, Pp:50-55, (September 2017)., ISSN No: 2278-4721. www.researchinveny.com
12. Vijayasankar.A., Gopalan.M.A., Krithika. V., *Integral solutions of non-homogeneous quintic Diophantine equation $x^3 + y^3 = 2z^5$* , Bulletin of Mathematics and Statistics Research, Vol.5, Iss.3, Pp:84-87, (July – September 2017)., ISSN No: 2348-0580. www.bomsr.com
13. Vijayasankar.A., Gopalan.M.A., Krithika. V., *On the binary quadratic equation $ax^2 - (a + 1)y^2 = a$* , World Journal of Engineering Research and Technology, Vol.3, Iss.5, Pp:473-479, (September 2017). ISSN No: 2454-695X. www.wjert.org
14. Vijayasankar.A., Gopalan.M.A., Krithika. V., *On ternary cubic Diophantine equation $2(x^2 + y^2) - 3xy = 56z^3$* , World Wide Journal of Multidisciplinary Research and Development, Vol.3, Iss.11, Pp:6-9, (November 2017)., ISSN No: 2454-6615. www.wwjmr.com
15. Vijayasankar.A., Gopalan.M.A., Krithika. V., *On the Hyperbola $2x^2 - 3y^2 = 15$* , Indo – Iranian Journal of Scientific Research, Vol.1, Iss.1, Pp:144-153, (December 2017)., ISSN No. 2581-4362. www.ijjsr.com
16. Vijayasankar.A., Gopalan.M.A., Krithika. V., *On the Cubic Diophantine equation with Four unknowns $x^2 + y^2 = z^3 - w^3$* , Journal of Mathematics and Informatics, Vol.11, (December 2017)., ISSN No: 2349-0640. www.researchmathsci.org

17. Vijayasankar.A., Gopalan.M.A., Krithika. V., *On the cubic Diophantine equation with four unknowns $x^2 - y^2 = z^3 - w^3$* , International Journal of Scientific Progress and Research, Vol.43, Iss.122, Pp:62-66, (January 2018)., ISSN No: 2349-4689. www.ijspr.com
18. Vijayasankar.A., Gopalan.M.A., Krithika. V., *On Bi-quadratic Diophantine equation with three unknowns $7(x^2 - y^2) + x + y = 8z^4$* , International Journal of Advanced Scientific and Technical Research, Vol.1, Iss.8, Pp:52-57, (January 2018)., ISSN No: 2249-9954. www.rpublication.com/ijst/index
19. Vijayasankar.A., Gopalan.M.A., Krithika. V., *On the Bi-quadratic Diophantine equation with five unknowns $2(x^4 - y^4) = 13(z^2 - w^2)p^2$* , International Journal of Mathematical Archive, Vol.9, Iss.4, Pp:26-31, (March 2018).ISSN No: 2229-5046. www.ijma.info
20. Vijayasankar.A., Krithika.V., Gopalan.M.A., *Lattice Points on the Cone $z^2 = 15x^2 - 6y^2$* , Journal of Physical Sciences, Vol.24, Pp: 107-113., (June 2019)., ISSN No: 2350-0352. www.vidyasagar.ac.in/publication/journal
21. Krithika.V., Vijayasankar. A., Gopalan.M.A., *On System of triple Diophantine Equations $x + y = a^2$, $2x + y = a^2 + b^2$, $x + 2y = a^2 + 2c^2$* , Journal of Engineering, Computing and Architecture, Vol.10, Iss.4, Pp: 60-68, (April 2020)., ISSN No: 1934-7197. www.journaleca.com
22. Vijayasankar. A., Krithika.V., Gopalan.M.A., *On the Ternary Quadratic Equation $7(a^2 + b^2) - 13xy = 27z^2$* , International Journal of Multidisciplinary Research and Growth Evaluation, Vol.03, Iss.1 Pp:97-102, January 2022, ISSN : 2582-7138

Conference / Workshops attended:

Name of the institution	Title	Date
ICOMAC 2022, Jamal Mohamed College, Trichy.	On The Non-Homogeneous Bi-Quadratic Equation With Three Unknowns $5(x^2 - y^2) + 6(x + y) = 6z^4$	21 st and 22 nd December 2022
ICAN 2K22, Ayya Nadar Janaki Ammal College, Sivakasi.	On the Non-Homogeneous Ternary Bi-Quadratic Equation	27 th October 2022.
ICDCM 2017, The Gandhigram Rural	On the Negative Pell Equation $y^2 = 112x^2 - 7$	February 16-18, 2017.

Institute – Deemed University, Dindigul.		
ICOMAC 2017, Jamal Mohamed College, Trichy.	On the Cubic Diophantine Equation with four unknowns $x^2 + y^2 = z^3 - w^3$	11 th December 2017
NCAAMS – 2k16, Cauvery College for Women, Trichy.	Observations on $x^2 + y^2 + z^2 = w^2$	August 12 th and 13 th 2016.
UGC Sponsored National Conference on Graph Theory, Fuzzy Graph Theory and their applications, Jamal Mohamed College, Trichy.	On two special Integer triples in Arithmetic Progression.	10 th and 11 th February 2016.
National Conference on MATAM – 2015, PSNA College of Engineering and Technology, Dindigul.	On the Negative Pell Equation $y^2 = 80x^2 - 31$	April 9 th and 10 th 2015.

Seminars attended:

Name of the institution	Date
Regional level seminar on Recent Trends in Mathematics by Shrimati Indira Gandhi College, Trichy.	26 th September 2015
National level seminar on Modern Trends in Mathematics by Shrimati Indira Gandhi College, Trichy.	22 nd December 2016.

Books Published:

1. A Collection of Special Higher Degree Diophantine Equations (Problems and Solutions), Sara Book Publication.
2. A chapter in the Book Contemporary Research Trends in Mathematics, Multi Spectrum publications.

Lectures: Nil**Experience:**

Duration	College
August 2019 to July 2021	Urumu Dhanalakshmi College, Kattur, Trichy.
23/08/2021 to till date	National College, Trichy.

Achievements: Nil**Research:**

(i) Ph.D Guided: Nil

(ii) Sponsored Research: Nil

Membership: Nil**Extension Activities:** Nil

