## CAUVERY COLLEGE FOR WOMEN

## (AUTONOMOUS)

## STAFF PROFILE

## PERSONAL INFORMATION

1. Name
: Dr.C.SARANYA
2. Date of Birth : 12-11-1988
3. Address
:

| Residential | Office |
| :--- | :--- |
| 28.2, Opposite to Kamatchi Amman temple, | Associate Professor, |
| Mudhaliyar Street, Woraiyur, | PG and Research Department of Mathematics, |
| Tiruchirappalli-620003. | Cauvery College for Women (Autonomous), |
| e-Mail: $\underline{\text { c.saranyavinoth@gmail.com }}$ | Annamalai Nagar, |
| mobile: 8807159838,8667482587 | Tiruchirappalli-620018. |
|  | e-mail: saranyac.maths@cauverycollege.ac.in |

## ACADEMIC INFORMATION

## 4. Designation \& Department:

Associate Professor, PG and Research Department of Mathematics.

## 5. Educational Qualification :

| Degree | Year | College/University |  |  |
| :---: | :---: | :--- | :---: | :---: |
| Ph.D., | Dec 2021 | Cauvery College for Women (Autonomous), <br> Affiliated to Bharathidasan University, <br> Tiruchirappalli. |  |  |
| SET | Apr 2017 | Mother Teresa Women's University, Kodaikanal. |  |  |
| M.Phil., | Nov 2011 | Seethalakshmi Ramaswami College (Autonomous), <br> Affiliated to Bharathidasan University, <br> Tiruchirappalli. |  |  |
| M.Sc., | Apr 2010 | Seethalakshmi Ramaswami College, (Autonomous), <br> Affiliated to Bharathidasan University, <br> Tiruchirappalli. |  |  |
| B.Sc., | Apr 2008 | leethalakshmi Ramaswami College (Autonomous), <br> Affiliated to Bharathidasan University, <br> Tiruchirappalli. |  |  |

## 6. RESEARCHER ID:

Google Scholar: https://scholar.google.com/citations?user=xcOrqQQAAAAJ\&hl=en
Orcid: https://orcid.org/0000-0002-0318-287X
Scopus ID: https://www.scopus.com/authid/detail.uri?authorId=57460519600
Web of Science ID: AAH-2795-2021
Publons: https://publons.com/researcher/3315266/saranya-c/

Vidwan: https://vidwan.inflibnet.ac.in/profile/205958

## Linkedin: https://www.linkedin.com/in/c-saranya-366a3513b/

## ResearchGate: https://www.researchgate.net/profile/C-Saranya-4

## 7. Dissertation/Thesis:

| S.No | Research Degree <br> M.Phil / Ph.D | Title of Dissertation / Thesis |
| :--- | :---: | :--- |
| 1. | M.Phil., | A Notion of $\delta$-Completion, Ascoli's theorem in Almost Quiet <br> Quasi-Uniform space. |
| 2. | Ph.D., | A Scrupulous Scrutiny On Spectacular Number Prototypes <br> And The Integral Solutions Of Substantial Diophantine <br> Equations. |

8. Experience:

| Date of Joining | Institution | Year of Experience |
| :---: | :---: | :---: |
| 05.08 .2011 | Cauvery College for Women | 12 Years 6 months |

9. Areas of Specialization : Number Theory
10. Languages known : Tamil, English

## 11. Subjects Taught:

| UG | Statics, Dynamics, Differential Equations \& Laplace Transforms, Algebra and <br>  <br> Statistics, Operations Research, Business Tools for Decision Making, Numerical <br> Analysis \& Statistics, Sequences \& Series, Calculus \& Fourier Series, Algebra, <br> Analytical Geometry (3D) \& Trigonometry, Algebra \& Theory of Numbers, <br> Mathematical Statistics-II, Number Theory, Discrete Mathematics, Vector <br> Calculus \& Fourier Series, Mathematics for Competitive Examinations, <br> MATLAB Programming, Business Statistics, Numerical Methods. |
| :--- | :--- |
| PG | Mathematical Modelling, Differential Geometry, Discrete Mathematics, Classical <br> Dynamics, Optimization Techniques, Probability \& Statistics, Ordinary <br> Differential Equations, Linear Algebra \& Functional Analysis. |

12. Details of Paper Publications:

| S.No | Journal Name \& Volume | Year of Publication | $\begin{array}{\|c\|} \hline \text { ISSN } \\ \text { Number } \\ \hline \end{array}$ | Name of the Paper | Impact Factor |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | Jamal Academic Research Journal - An Interdisciplinary, Special issue | Feb 2016 | $\begin{gathered} \hline 0973- \\ 0303 \end{gathered}$ | Observations on the Ternary Quadratic Equation $5 x^{2}+7 y^{2}=972 z^{2}$ | - |
| 2. | American International <br> Journal of Research in <br> Science, Technology, <br> Engineering and <br> Mathematics, Issue-13 | Dec 2015- <br> Feb 2016 | $\begin{gathered} 2328- \\ 3491 \end{gathered}$ | Special pairs of Pythagorean triangles and Jarasandha numbers | 5.01 |


| 3. | International Journal of Innovative Research in Science, Engineering and Technology, Vol-5, Issue-2 | Feb 2016 | $\begin{gathered} 2347- \\ 6710 \end{gathered}$ | Observations on the Ternary Quadratic Diophantine Equation $\begin{aligned} & 6\left(x^{2}+y^{2}\right)-11 x y+3 x+3 y \\ & +9=72 z^{2} \end{aligned}$ | 5.442 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4. | International Journal of Multidisciplinary Research and Development, Volume 3, Issue 3 | March 2016 | $\begin{gathered} 2349- \\ 4182 \end{gathered}$ | Connection between Special Pythagorean triangles and Jarasandha numbers | 5.72 |
| 5. | Bulletin of Mathematics and Statistics Research, Volume 4, Issue 2 | $\begin{gathered} \hline \text { Apr-Jun } \\ 2016 \end{gathered}$ | $\begin{gathered} 2348- \\ 0580 \end{gathered}$ | Special Rectangles and Jarasandha numbers | 4.495 |
| 6. | Asian Journal of Science and Technology, Volume 7, Issue 5 | May 2016 | $\begin{gathered} \hline 0976- \\ 3376 \end{gathered}$ | Special pairs of Rectangles and Jarasandha numbers | 5.544 |
| 7. | International Journal of Engineering, Science, and Computing, Vol-6, Issue-5 | May 2016 | $\begin{gathered} 2321- \\ 3361 \end{gathered}$ | Integral solutions of the non-homogeneous heptic equation with five unknowns $\begin{aligned} & 5\left(x^{3}-y^{3}\right)-7\left(x^{2}+y^{2}\right)+z^{3}- \\ & \left.w^{3}+3 w z-x y+1\right)=972 p^{7} \end{aligned}$ | 5.611 |
| 8. | International Research Journal of Engineering and Technology, Volume 3, Issue7 | July 2016 | $\begin{gathered} 2395- \\ 0056 \end{gathered}$ | Pythagorean triangle with Area.Perimeter as a Jarasandha number of orders $2 \& 4$ | 4.45 |
| 9. | International Research Journal of Engineering and Technology, Volume 4, Issue3 | March 2017 | $\begin{gathered} 2395- \\ 0056 \end{gathered}$ | Integral Solutions of the Ternary Cubic Equation $3\left(x^{2}+y^{2}\right)$ $4 x y+2(x+y+1)=972 z^{3}$ | 5.181 |
| 10. | International Journal of Research in Engineering and Applied Sciences, Volume 7, Issue XI | March 2017 | $\begin{gathered} 2249- \\ 3905 \end{gathered}$ | Connection between Frustum of the Cone with Jarasandha Numbers and Some Special Numbers | 7.196 |
| 11. | International Journal for Research in Applied Science \& Engineering Technology, Volume 5, Issue VIII | Aug 2017 | $\begin{gathered} \hline 2321- \\ 9653 \end{gathered}$ | Integral Solutions of the Homogeneous Biquadratic Diophantine Equation $\begin{aligned} & 3\left(x^{4}-y^{4}\right)-2 x y\left(x^{2}-y^{2}\right)= \\ & 972(z+w) p^{3} \end{aligned}$ | 6.887 |
| 12. | International Journal for Scientific Research \& Development, Volume 5, Issue 7 | Aug 2017 | $\begin{gathered} 2321- \\ 0613 \end{gathered}$ | Integral Solutions of the Homogeneous Quintic Diophantine Equation $x^{5}-y^{5}-x^{2} y^{2}(x-$ y) $=972(x-y)(z+w)^{2} p^{2}$ | 4.396 |
| 13. | International Journal for Research in Applied Science \& Engineering Technology, Volume 5, Issue XI | Nov 2017 | $\begin{aligned} & 2321- \\ & 9653 \end{aligned}$ | Evaluating Pyramidal <br> Numbers and <br> Pentatope Number <br> Using Initial Value <br> Theorem in Z- <br> Transform | 6.887 |
| 14. | Journal of Mathematics and Informatics, Vol 11, Special Issue | Dec 2017 | $\begin{gathered} 2349- \\ 0632 \end{gathered}$ | Special Dio 3-tuples for Pentatope Number | 1.627 |


| 15. | International Journal for Research in Applied Science \& Engineering Technology, Volume 6, Issue III | March 2018 | $\begin{gathered} \hline 2321- \\ 9653 \end{gathered}$ | Construction of The Diophantine Triple involving Pentatope Number | 6.887 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 16. | Aryabhatta Journal of <br> Mathematics $\&$ <br> Informatics, Vol 10, No.  <br> 2  | $\begin{gathered} \text { July-Dec } \\ 2018 \end{gathered}$ | $\begin{gathered} \hline 0975- \\ 7139 \end{gathered}$ | Tracing of Polygonal Number from Pyramidal Number and Pentatope Number Division Algorithm | 5.856 |
| 17. | International Journal of Research and Analytical Reviews, Volume 5, Issue 4 | Nov 2018 | $\begin{gathered} \hline 2349- \\ 5138 \end{gathered}$ | Sums of Squares of Pyramidal Numbers | 5.75 |
| 18. | International Journal of Research and Analytical Reviews, Volume 6, Issue 1 | Jan 2019 | $\begin{gathered} 2349 \\ 5138 \end{gathered}$ | Integer Triples <br> comprising of <br> Jarasandha Numbers <br> in Arithmetic <br> Progression $\&$ <br> Geometric Progression | 5.75 |
| 19. | International Journal of Scientific Research in Mathematical and Statistical Sciences, Volume 6, Issue 1 | Feb 2019 | $\begin{gathered} 2348- \\ 4519 \end{gathered}$ | Solutions of Pell's Equation involving Jarasandha Numbers | 1.021 |
| 20. | Compliance Engineering journal, Volume 10, Issue 8 | Aug 2019 | $\begin{gathered} \hline 0898- \\ 3577 \end{gathered}$ | Relation Between Lateral Surface Area of a Cube \& Pyramidal Numbers | 6.1 |
| 21. | ADALYA Journal, Volume 10, Issue 8 Volume 10, Issue 8 | Aug 2019 | $\begin{aligned} & 1301- \\ & 2746 \end{aligned}$ | Special Dio- <br> Quadruples  <br> comprising of <br> Centered Square <br> numbers with property  <br> $D(2)$  | 5.3 |
| 22. | International Journal for Science and Advance Research in Technology, Volume 5, Issue 8 | Aug 2019 | $\begin{gathered} \hline 2395- \\ 1052 \end{gathered}$ | Gaussian Diophantine Quadruples involving Gnomonic numbers with property $\mathrm{D}(4)$ | 5.888 |
| 23. | International Journal of Recent Technology and Engineering <br> (UGC CARE LIST 'II' \& SCOPUS <br> INDEXED),Volume 8, Issue 3 | Sep 2019 | $\begin{gathered} 2277- \\ 3878 \end{gathered}$ | Half Companion <br> sequences of <br> Dio special <br> Centered involving <br> Center square <br> numbers  | 5.92 |
| 24. | Aryabhatta Journal of <br> Mathematics $\&$ <br> Informatics, Vol 11, No.  <br> 2  | $\begin{gathered} \hline \text { July-Dec } \\ 2019 \end{gathered}$ | $\begin{gathered} \hline 0975- \\ 7139 \end{gathered}$ | Correlation between Pyramidal Numbers | 5.856 |


| 25. | Advances and <br> Applications in <br> Mathematical Sciences, <br> (UGC CARE  <br> Web of Science), <br> Volume 18, Issue 12  | Oct 2019 | $\begin{gathered} \hline 0974- \\ 6803 \end{gathered}$ | Solution of <br> Exponential  <br> Diophantine Equation <br> involving Jarasandha <br> Numbers  | - |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 26. | International Journal of Scientific Research in Mathematical and Statistical sciences, Volume 6, Issue 6 | Dec 2019 | $\begin{gathered} \hline 2348- \\ 4519 \end{gathered}$ | Some Non-Extendable Diophantine Triples involving Centered square numbers | 1.021 |
| 27. | INFOKARA Journal, Volume 9, Issue 2 | Feb 2020 | $\begin{aligned} & 1021- \\ & 9056 \end{aligned}$ | Some Non-Extendable Special Dio- Triples involving Pentatope numbers | 5.3 |
| 28. | PARISHODH Journal, Volume XI, Issue II | Feb 2020 | $\begin{gathered} 2347- \\ 6648 \end{gathered}$ | On Generalized <br> Fermat Equations <br> involving Jarasandha <br> Numbers  | 6.3 |
| 29. | International Journal of Scientific Research in Multidisciplinary Studies, Volume 6, Issue 6 | Mar 2020 | $\begin{gathered} 2454- \\ 9312 \end{gathered}$ | Integral solutions of the non-homogeneous Sextic equation with Three unknowns $3\left(x^{2}+y^{2}\right)-2 x y=972 z^{6}$ | 1.021 |
| 30. | Journal of Xidian University, Volume 14, Issue 4 | Apr-2020 | $\begin{aligned} & \hline 1001- \\ & 2400 \end{aligned}$ | Continued Fractions of Proportions of Consecutive Pyramidal Numbers | 5.4 |
| 31. | International Journal of Scientific Research in Mathematical and Statistical sciences, Volume 7, Issue 2 | Apr-2020 | $\begin{gathered} 2348- \\ 4519 \end{gathered}$ | Observations on the Binary Quadratic Diophantine Equation $x^{2}-2 x y-y^{2}+2 x+14 y=72$ | 1.021 |
| 32. | Aryabhatta Journal of Mathematics \& Informatics, Volume 12, No. 1 | Jan-June 2020 | $\begin{gathered} 0975- \\ 7139 \end{gathered}$ | Ramanujan-Type <br> Diophantine Equation Involving Jarasandha Numbers | 5.856 |
| 33. | Indian Journal of <br> Advanced Mathematics <br> (IJAM), Volume-1, <br> Issue-2  | October $2021$ | $\begin{gathered} \hline 2582- \\ 8932 \\ (\text { Online) } \end{gathered}$ | Special Diophantine <br> Triples Involving <br> Square Pyramidal <br> Numbers  | - |
| 34. | JIJNASA, Volume 38, No. 1 | April 2021 | $\begin{aligned} & \hline 0337- \\ & 743 X \end{aligned}$ | Encryption Technique Using RSA Public Key Cryptography Involving Jarasandha Numbers Of Orders 2 And 4 | - |


| 35. | Utkal Historical <br> Research Journal, <br> Volume 34(V) | April 2021 | $\begin{gathered} \hline 0976- \\ 2132 \end{gathered}$ | Application $\quad$ of Number Theory in Balancing Chemical Equations And Ladder Problem in Statics | - |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 36. | International Journal of Scientific Research in Mathematical and Statistical sciences, Volume 8, Issue 6 | Dec 2021 | $\begin{gathered} 2348- \\ 4519 \end{gathered}$ | Dio-Triples Involving <br> Pentagonal Pyramidal Numbers | 1.021 |
| 37. | International Journal for Research in Applied Science \& Engineering Technology, Volume 10, Issue I | Jan 2022 | $\begin{gathered} 2321- \\ 9653 \end{gathered}$ | Integral Solutions of the ternary cubic equation $6\left(x^{2}+y^{2}\right)-11 x y=288 z^{3}$ | 7.538 |
| 38. | Advances and <br> Applications in <br> Mathematical Sciences, <br> (UGC CARE  <br> Web of Science), <br> Volume 21, Issue 3  | Jan 2022 | $\begin{gathered} \hline 0974- \\ 6803 \end{gathered}$ | Observations $\quad$ On Ternary $\quad$ Quadratic Equation $3 x^{2}+2 y=275 z^{2}$ | - |
| 39. | Advances and <br> Applications in <br> Mathematical Sciences, <br> (UGC CARE  <br> Web of Science), <br> Volume 18, Issue 12  | Jan 2022 | $\begin{gathered} 0974- \\ 6803 \end{gathered}$ | Diophantine Triples <br> Involving Square <br> Pyramidal Numbers | - |
| 40. | International Journal for Research in Applied Science \& Engineering Technology, Volume 10, Issue III | March 2022 | $\begin{gathered} \hline 2321- \\ 9653 \end{gathered}$ | Special Dio 3-Tuples <br> Involving Square <br> Pyramidal Numbers  | 7.538 |
| 41. | International Journal of Scientific Research in Mathematical and Statistical sciences, Volume 9, Issue 2 | April 2022 | $\begin{gathered} \hline 2348- \\ 4519 \end{gathered}$ | Observations On <br> Ternary Quadratic <br> Equation $9\left(x^{2}+y^{2}\right)$ - <br> $17 x y+4 x+4 y+16=84 z^{2}$  | 1.021 |
| 42. | International Journal of Scientific Research in Mathematical and Statistical sciences, Volume 9, Issue 4 | Aug 2022 | $\begin{gathered} 2348- \\ 4519 \end{gathered}$ | Construction of <br> Diophantine Triples <br> Involving Hexagonal <br> Pyramidal Numbers | 1.021 |
| 43. | International Journal of Scientific Research in Mathematical and Statistical sciences, Volume 9, Issue 4 | Aug 2022 | $\begin{gathered} 2348- \\ 4519 \end{gathered}$ | Integral solutions of an Exponential Diophantine Equation $25^{x}+24^{y}=z^{2}$ | 1.021 |


| 44. | Advances and <br> Applications in <br> Mathematical Sciences, <br>   <br> Web of Science), <br> Volume 22, Issue 2  | Dec 2022 | $\begin{gathered} \hline 0974- \\ 6803 \end{gathered}$ | Encryption Technique Involving Ramanujan Prime Numbers Using RSA Public Key Cryptography | - |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 45. | International Journal for Research in Applied Science \& Engineering Technology, Volume 11, Issue II | Feb 2023 | $\begin{aligned} & \hline 2321- \\ & 9653 \end{aligned}$ | Formation of Diophantine Triples Involving Heptagonal Pyramidal Numbers | 7.538 |
| 46. | International Journal for Research in Applied Science \& Engineering Technology, Volume 11, Issue II | Feb 2023 | $\begin{aligned} & \hline 2321- \\ & 9653 \end{aligned}$ | Diophantine Triples Involving Octagonal Pyramidal Numbers | 7.538 |
| 47. | Aryabhatta Journal of Mathematics \& Informatics, Vol 15, No. 1 | $\begin{gathered} \text { Jan - June } \\ 2023 \end{gathered}$ | $\begin{gathered} 0975- \\ 7139 \end{gathered}$ | Special Diophantine Triples Involving Octagonal Pyramidal Numbers | 5.856 |
| 48. | Aryabhatta Journal of Mathematics \& Informatics, Vol 15, No. 1 | $\begin{gathered} \text { Jan - June } \\ 2023 \end{gathered}$ | $\begin{gathered} 0975- \\ 7139 \end{gathered}$ | Some Non-Extendable Special Diophantine Triples Involving Heptagonal Pyramidal Numbers | 5.856 |

13. Details of Book Chapters Published:

| S.No | Chapter Name | Book Name \& Volume | Year of Publication | Print ISBN | $\begin{gathered} \hline \text { eBook } \\ \text { ISBN } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | Integral Solutions of the Binary Quadratic Diophantine Equation $\begin{aligned} & x^{2}-2 x y-y^{2}+2 x \\ & +14 y=72 \end{aligned}$ | Recent Advances in Mathematical <br> Research and Computer Science Vol. 2, Chapter 8 | Oct 2021 | $\begin{gathered} \hline 978-93- \\ 5547- \\ 178-9 \end{gathered}$ | $\begin{gathered} \hline 978-93- \\ 5547- \\ 179-6 \end{gathered}$ |
| 2. | Non-Extendability of Diophantine Triples Comprising Centered Square Numbers | Recent Advances in Mathematical <br> Research and Computer Science Vol. 2, Chapter 9 | Oct 2021 | $\begin{gathered} \hline 978-93- \\ 5547- \\ 178-9 \end{gathered}$ | $\begin{gathered} \hline 978-93- \\ 5547- \\ 179-6 \end{gathered}$ |
| 3. | Some Interesting Applications Of Number Theory | Emerging Trends in Science, Social Science, Engineering and Management-A Multidisciplinary Approach, Chapter 20 | Dec 2021 | - | $\begin{gathered} 978-93- \\ 5546- \\ 016-5 \end{gathered}$ |
| 4. | Some $r$ Non- <br> Extendabler Special <br> Dio 3-Tuples <br> Involving Heptagonal <br> Pyramidal Numbers  | Explorations in <br> Diophantine <br> Equations, Chapter 5 | Nov 2023 | $\begin{gathered} \hline 978-81- \\ 967488- \\ 3-8 \end{gathered}$ | $\begin{gathered} 978-81- \\ 967488- \\ 6-9 \end{gathered}$ |
| 5. | Special Dio 3-Tuples Involving Octagonal Pyramidal Numbers | Explorations <br> Diophantine <br> Equations, Chapter 8 | Nov 2023 | $\begin{gathered} 978-81- \\ 967488- \\ 3-8 \end{gathered}$ | $\begin{gathered} 978-81- \\ 967488- \\ 6-9 . \end{gathered}$ |

14. Details of Papers Presented \& Conference Attended:

| S.No | Date | Organizer | Name of the Conference | Paper Name |
| :---: | :---: | :---: | :---: | :---: |
| 1. | $10^{\text {th }} \&$ $11^{\text {th }}$ Feb 2016 | Jamal Mohammed College, Tiruchirappalli | National Conference on Graph theory, Fuzzy Graph theory and their applications | Observations on the Ternary Quadratic Equation $5 x^{2}+7 y^{2}=972 z^{2}$ |
| 2. | $\begin{gathered} 11^{\text {th }} \text { Dec } \\ 2017 \end{gathered}$ | Jamal Mohammed College, Tiruchirappalli | International  <br> Conference on <br> Mathematical  <br> Methods and <br> Computation  |  Special Dio 3-tuples <br> for Pentatope <br> Number  |
| 3. | $\begin{gathered} \text { Jan } 7-9, \\ 2019 \end{gathered}$ | St.Joseph College, Tiruchirappalli | International <br> Conference <br> on <br> Discrete Mathematics <br> -ICDM 2019 | Relation Between <br> Lateral Surface <br>   <br> Pyramidal Numbers  |
| 4. |  <br> 12, 2021 <br> (online) | Kristu Jayanti College, Bengaluru \& Bengaluru North University | National Conference on Recent Trends in Pure and Applied Mathematics | Solution of a Fascinating Exponential Diophantine Equation involving Jarasandha Number of Order 2 |
| 5. | $\begin{array}{ll} \hline 24-25 & \\ \text { March } \\ 2023 \\ \text { online } \end{array} \quad \&$ | Srinivasa  <br> Ramanujan Centre, <br> SASTRA Deemed <br> University,  <br> Kumbakonam  | International  <br> Conference on <br> Mathematics and <br> applications In <br> Technology  <br> (ICMAT23)  | A Strategy for obtaining Digital <br> Signatures and <br> Public key <br> Cryptosystems using Pell's equation with Kronecker symbol |
| 6. | April 28- <br> 30, 2023 <br> \& online | Department of Mathematics Dayanand Vedic College, Orai (Jaluan) Uttar Pradesh, India | 24th Annual <br> Conference of <br> Vijñāna Parishad of  <br> India and National <br> Seminar on New <br> Thrust Areas in <br> Mathematics,  <br> Mathematical  <br> Sciences and <br> Engineering  <br> (NTAMMSE-2023)  | Acquiring Half <br> companion  <br> sequences of <br> Diophantine triples <br> inclusive of <br> Gnomonic numbers  |

15. Details of Workshops Attended:

| S.No | Year \& Date | Organizer | Title | National . International |
| :---: | :---: | :---: | :---: | :---: |
| 1. | $\begin{gathered} 11.05 .2020 \\ \text { to } \\ 15.05 .2020 \end{gathered}$ | Sree Narayana Guru College, Coimbatore | Workshop on Mathematical Sciences for CSIR- NET, SET, GATE (Online) | State level |
| 2. | $\begin{gathered} 24^{\text {th }} \& 25^{\text {th }} \\ \text { July } 2020 \end{gathered}$ | New Prince Shri  <br> Bhavani Arts and <br> Science College,  <br> Chennai   | National Level Workshop on Revised NAAC Accreditation Framework for Affiliated. Constituent Colleges- Online Pedagogy | National |
| 3. | $\begin{aligned} & 27^{\text {th }} \text { to } 29^{\text {th }} \\ & \text { September } \\ & 2021 \end{aligned}$ | Dnyandeep Mandal's St.Joseph College of Arts and Commerce, Satpala, Virar, Maharashtra | National Level Workshop on how to write Research Proposals for M.Phil and Ph.D Admission (Online) | National |

16. Details of Orientation, Refresher Course, Certificate Course \& NPTEL Attended:

| S.No | Date | Title of the Course | Organizer |
| :---: | :--- | :--- | :--- |
| 1. | 08.05 .2012 to <br> 04.06 .2012 | 74th UGC Sponsored <br> Orientation Programme | Bharathidasan <br> University, <br> Tiruchirappalli. |
| 2. | 07.05 .2020 to |  |  |
| 22.05 .2020 | Certificate Micro Course- <br> LiDA103 <br> Certificate of Competency: <br> Copyright and Creative <br> Commons Licensing \& a <br> Badge | The Open Education <br> Resource Universitas <br> (OERu) |  |
| 3. | August- October 2019 | Matrix Analysis with <br> Applications <br> FDP \& ELITE | NPTEL-AICTE |
| 4. | August- October 2022 | Descriptive Statistics with R <br> Software <br> FDP \& ELITE+ silver | NPTEL-AICTE |
| 5. | January-April 2023 | Advanced Computational <br> Techniques <br> FDP \& ELITE | NPTEL-AICTE |
| 6. | $10.02 .2023-10.03 .2023$ | 30 Hours online Certificate <br> Course on Research and <br> Publication Ethics | Government of India, <br> Ministry of Education |
| 7. | July-September 2023 | Introduction to Linear and <br> Abstract Algebra <br> FDP \& ELITE+ silver | NPTEL-AICTE |

17. Details of Incharge . Participation in Extracurricular Activities :
( NSS, NCC, Sports, Games, Voluntary Association and Cultural Activities):

| Nature of Activity | Period of In charge |
| :---: | :---: |
| Fine Arts In charge | 2016-2017 |
| Department Library In charge | 2016-Till date |
| Department Profile In charge | 2021- Till date |

18. Details of Participation in Consultancy, Training, Development:

| S.No | Development Programme |
| :---: | :---: |
| 1. | Certified Microsoft Innovative Educator |

19. Editorial Board Member - Aryabhatta Journal of Mathematics and Informatics.
20. Life time membership - Bharat Ganita Parishad,

Department of Mathematics and Astronomy, University of Lucknow, Lucknow.

## 21. Details of Research Papers Reviewed:

No. Of Research Papers Reviewed : 76
No. Of Book Chapters Reviewed : 06

## Reviewer in

$>$ South East Asian Journal of Mathematics and Mathematical Sciences (SCOPUS \& UGC CARE LIST).
> Indian Journal of Science and Technology (WEB OF SCIENCE \& UGC CARE LIST)
> Journal of Pharmaceutical Research International (WEB OF SCIENCE).
$>$ Asian Journal of Mathematics and Computer Research.
$>$ Journal of Advances in Mathematics and Computer Science.
$>$ Journal of Scientific Research and Reports.
$>$ Asian Journal of Advanced Research and Reports.
$>$ Asian Research Journal of Current Science.
$>$ Asian Journal of Probability and Statistics.
$>$ American Journal of Applied Mathematics.
$>$ Asian Journal of Pure and Applied Mathematics.
> Asian Journal of Research and Reviews in Physics.
$>$ Asian Research Journal of Mathematics.
$>$ Asian Basic and Applied Research Journal.
$>$ Book Chapter- Novel Research Aspects in Mathematical and Computer Science (BP International)
> Book Chapter- New Trends in Physical Science Research (BP International).
$>$ Book Chapter - Research Highlights in Mathematics and Computer Science (BP International).
$>$ Journal of Education, Society and Behavioural Science.
$>$ Oriental Journal of Physical Sciences.

## 22. Details of Faculty Development Programme:

No. of Faculty Development Programme attended :25

## 23. Details of Webinars Attended:

