

BIODATA

NAME & QUALIFICATION : N.UMAMAHESWARI, M.Sc., M.Phil.,
B.Ed., Ph.D



DESIGNATION : ASSISTANT PROFESSOR

DEPARTMENT NAME : MATHEMATICS

Email id : maheshreji11@gmail.com

Official Id : umamaheswarin@sigc.edu

Specialization : Stochastic processes

PROFESSIONAL MEMBERSHIP:

Total Teaching Experience : 18 years

Research Experience : 15 years

Guide ship : M.Phil

No. of Scholars who have taken their M.Phil under my guidance and their details 20

No. of research articles published in UGC CARE / SCOPUS / WEB of SCIENCE indexed journals 07

PUBLICATIONS:

1. Dr. P. Senthil Kumar and Mrs. N. Umamaheswari “**Stochastic Model to find the expected Deterioration of cortisol secretion of Metastatic Breast cancer using Gamma Distribution**”, Proceedings of the KSCSTE, DST sponsored International Conference on Advances in Applied Probability, Graph Theory and Fuzzy Mathematics (ICAPGF), pg: 75-84, 11-14 January 2014. ISBN: 978-93-5174-243-2. (Published in Conference Proceedings).
2. Dr. P. Senthil Kumar and Mrs. N. Umamaheswari “**Stochastic Model to find the time factor of cortisol secretion of Breast cancer using weibull Distribution**” Icomac 2014, proceedings, pg:572-579, Jamal Academic Research Journal, 13 & 14 February 2014. ISSN 0973-0303. (Published in Conference Proceedings).
3. Dr. P. Senthil Kumar and Mrs. N. Umamaheswari “**Stochastic Model for the Box-Cox power transformation and estimation of the Ex-Gaussian Distribution of cortisol**

Secretion of Breast cancer due to smoking people” Antartica J.Math, 11 (1) (2014) 99-108; ISSN 0972-8643.

4. Dr. P. Senthil Kumar and Mrs. N.Umamaheswari **“Stochastic Modeling Neutral Evolution by an IAMPB of cortisol Secretion of Breast cancer”** Int.Journal of Engineering Research and Applications. vol 4, issue 8 (version 6) (2014): pp: 14-19, ISSN: 2248-9622.
5. Dr. P. Senthil Kumar and Mrs. N.Umamaheswari **“The Impact by $P_{\lambda T}^M$ polices as a nonnegative levy process of diurnal cortisol Beat of Breast cancer through Stochastic Model”** International Journal of Graphics and Image Processing, vol 4, issue 3, Aug 2014: pg:229-236. ISSN 2249-5452.
6. Dr. P. Senthil Kumar and Mrs. N.Umamaheswari **“The Impact by Reliability Growth in stress intervention for non-metastatic Breast cancer through stochastic model”** Aryabhatta Journal of Mathematics, vol 6, issue 2, Nov 14. ISSN: 0975-7139.
7. Mrs. N. Umamaheswari and Ms. R. Shanthi **“Innovative Teaching – Learning Process In The Rural Background Colleges, Tamilnadu”** proceedings of the NAAC sponsored National seminar on **“Inculcating Innovative Practices In Teaching And Learning Methods For Quality Education”**, 13thand 14th July 2012.
8. Mrs. N. Umamaheshwari and Ms. S. Nithya **“The Inverse Strong Non – Split - r - Domination Number of A Graph”** proceeding of the UGC sponsored National seminar on **“Applications in Graph theory”** 18thand 19th December 2012.
9. Mrs. N. Umamaheswari and Ms. S. Ramya **“Bounds on the k – Domination Number of a Graph”** proceedings of the UGC sponsored National Seminar on **“Applications in Graph Theory”** 18thand 19th December 2012.
10. Mrs .N. Umamaheswari and Ms .R. Usharani **“Majority vertex (edge) cover of a Enigma”** a Research Publications of Dhanalakshmi Srinivasan College of Arts and Science for Women, Perambalur, issue 3, volume 3, Dec 2012, Pg:57-61, ISSN 2277-5723.
11. Dr. M. A. Gopalan, Dr. N. Umamaheswari, Dr. J. Shanthi, Mrs. T. Mahalakshmi, **“A Study On The Hyperbola $y^2 = 11x^2 - 50$ ”**, Alochana Chakra Journal, Volume IX, Issue IV, April 2020, ISSN NO: 2231-3990, PP: 3879-3895.
12. Dr. M. A. Gopalan, Dr. N. Umamaheswari, E. Premalatha **“On The Homogenous Cubic Diophantine Equation With Four Unknowns $(x^3 + y^3) = 8zw^2$ ”** Alochana Chakra Journal, Volume IX, Issue V, May 2020, ISSN NO: 2231-3990, PP: 285-291.

13. Dr. N. Umamaheswari and Ms. K. Bhavanasri, “**Stochastic Modeling For Using An Infinite – Allele Markov Branching Process Of HPA Axis Functioning Combined DEX/CRH Test**”, International Research Journal of Education and Technology, Volume 01, Issue 05, February 2021, **ISSN 2581-7795, PP: 95-105.**
14. Dr. N. Umamaheswari and Ms. K. Bhavanasri, “**Stochastic Modeling For Using An Extended Reliability Growth Model For Survival Outcomes In Black And White Breast Cancer Patients**”, Volume 3, Issue 5, May 2021, **ISSN 2395-5252, PP: 1103-1106.**
15. Dr. S. Vidhyalakshmi, Dr. N. Umamaheswari, Ms. M. Revathi, Dr. M. A. Gopalan, “**On Finding Integer Solutions To The Ternary Quadratic Diophantine Equation $2(x^2 + y^2) - 3xy = 43x^2$** ”, International Journal Of Current Advanced Research, Volume 10, issue 11(8), Nov 2021, **ISSN: No: 2319–6475 PP: 25561–25564**, Impact factor: 6.614.
16. Dr. N. Umamaheswari, Ms. V. Bahavathi, MS. B. Loganayaki, J. Sasikala, “**Observations On The Integer Solution Of The Positive Pell Equation $y^2 = 15x^2 + 21$** ”, International Journal Of Research Publication And Reviews, Volume 3 : no: 2 ; PP: 219–234, **ISSN: 2582–7421.**
17. Dr. N. Umamaheswari, Ms. E. Thatchayeni, “**Stochastic Modeling For Using A Cross Cultural Analysis Of Salivary Cortisol In Breast Cancer Survivals**”, International Journal Of Research In Engineering And Sciences, Volume 10, issue: 212022, PP: 27 – 36.

NATIONAL JOURNALS: 03

INTERNATIONAL JOURNALS: 14

RESEARCH PAPERS PRESENTED IN CONFERENCES:

1. Ms. N. Umamaheswari “The SVD –Fundamental theorem of linear Algebra” Presented in one day National Seminar in “**Algebra and Graph theory**” held at Srinivasan college of Arts and Science, Perambalur Sep 26, 2012
2. Mrs. N. Umamaheswari and Ms. R. Shanthi presented “**Innovative Teaching – Learning Process In The Rural Background Colleges, Tamilnadu**” proceedings of the NAAC sponsored National seminar on “**Inculcating Innovative Practices In Teaching And Learning Methods For Quality Education**”, 13th and 14th July 2012.
3. Mrs. N. Umamaheswari and Ms. S. Nithya presented “**The Inverse Strong Non – Split - r - Domination Number of A Graph**” proceeding of the UGC sponsored National seminar on “**Applications in Graph theory**” 18th and 19th December 2012.
4. Mrs. N. Umamaheswari and Ms. S. Ramya presented “**Bounds on the k – Domination Number of a Graph**” proceedings of the UGC sponsored National Seminar on “**Applications in Graph Theory**” 18th and 19th December 2012.

5. Mrs .N. Umamaheswari and Ms .R. Usharani presented “**Majority vertex (edge) cover of a Enigma**” a Research Publications of Dhanalakshmi Srinivasan College of Arts and Science for Women, Perambalur, issue 3, volume 3, Dec 2012, Pg:57-61, ISSN 2277-5723.
6. Mrs. N. Umamaheswari presented “**Stochastic Model to find the time factor of cortisol secretion of Breast cancer using weibull Distribution**” Icomac 2014, proceedings, page: 572-579, Jamal Academic Research Journal, 13 & 14 February 2014. ISSN 0973-0303.(Published in Conference Proceedings).
7. Mrs. N. Umamaheswari presented “**Stochastic Model to find the expected Deterioration of cortisol secretion of Metastatic Breast cancer using Gamma Distribution**”, Proceedings of the KSCSTE, DST sponsored International Conference on Advances in Applied Probability, Graph Theory and Fuzzy Mathematics (ICAPGF), pg: 75-84, 11-14 January 2014. ISBN: 978- 93-5174-243-2. (Published in Conference Proceedings)

NATIONAL CONFERENCES: 05

INTERNATIONAL CONFERENCES: 02

REFRESHER COURSE:

Dr. N. Umamaheswari participated in “Refresher course on probability stochastic processes and applications” organized by Cochin University of Science and Technology, Kochi, on 26th September to 7th October 2005.

WORKSHOP:

1. Ms. N. Umamaheswari, Participated the International workshop on “Statistics for Proteomics and Clinical Research (SPAC 2012)” held at **Bharathidasan University** on Aug 7, 2012

ANY OTHER INFORMATION : Project co-ordinator

PROJECT CO-ORDINATOR AND RESEARCH PERSON:

1. Ms. N. Umamaheswari,” acted as a project Co-ordinator and Research Person in “Inservice Training Programme for Secondary Grade Science Teachers” sponsored by **Tamilnadu State Council for Science and Technology Chennai**” held at Dhanalakshmi Srinivsan College of Arts and Science for Women, Perambalur, Nov 22-26, 2010.

WEBINARS ATTENDED

1. Dr. N. Umamaheswari attended “**An Introduction To Domination In Graph Theory**”,KSG College of Arts and Science, Coimbatore, June 5, 2020.
2. Dr. N. Umamaheswari attended “**Coloring of Graphs**”, Tirumala Engineering College, Andhra Pradesh, June 26, 2020,
3. Dr. N. Umamaheswari attended “**FDP on Applications Of Mathematics**”, Hindusthan College of Engineering and Technology, June 13-15, 2020.
4. Dr. N. Umamaheswari attended “**Application Of Stochastic Processes In Human Resource Planning**”, Wavoo Wajeeha Women’s College of Arts and Science, Kayalpatnam July 15, 2020.
5. Dr. N. Umamaheswari attended “**Remembrance Meeting Of Dr. A. P. J. Abdul Kalam**”, St.Paul’s College, Kalamassery, July 27, 2020.
6. Dr. N. Umamaheswari attended “**Sagemath – Greatest Way Of Understanding Math**”, PSNA College of Engineering and Technology, June 18, 2020.
7. Dr. N. Umamaheswari attended “**Understanding Phrase Structure Grammars And Formal Languages With JFLAP Software**, SSKV College of Arts and Science for Women, Kanchipuram, July 12, 2020.
8. Dr. N. Umamaheswari attended six day National level Faculty Enrichment program on “**A Ligning with the new education ERA**” from 21.02.2022 to 26.02.2022, PRIMAX FOUNDTION.
9. Dr. N.Umamaheswari attended five day National online Faculty development program on **Mathematical Modeling** from 06.04.2022 to 11.04.2022, Sarojini Naidu Vanith Maha Vidhyala.
10. Dr. N. Umamaheswari attended a Webinar on “**Data Science**” 28.04.2022, Thassim Beevi Abdul Kadar College for Women.
11. Dr. N. Umamaheswari attended a Five day Faculty development program on “**Pedagogy about Software development in Mathematics**” from 18.04.2022 to 22.04.2022, Vels Institute of Science, Technology and advanced Studies