



SHRIMATI INDIRA GANDHI COLLEGE

(Affiliated to Bharathidasan University)

Nationally Accredited at 'A' Grade (4th Cycle) by NAAC | An ISO 9001 : 2015 Certified Institution
Tiruchirappalli - 620 002

Name : Dr..N.Umamaheswari
Designation : Assistant Professor
Department : PG & Research Department of Mathematics
Qualification : M.Sc., M.Phil., B.Ed., Ph.D
Experience : Teaching: 21 Research: 18
Area of Specialization(s) : Stochastic Processes
Email (Official ID) : umamaheswarin@sigc.edu
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Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D	Mathematics	Rajah Serfoji Govt. College (Autonomous) Tanjore.	Oct - 2017
B.Ed.,	Mathematics	Dhanalakshmi Srinivasan College of Education for Women, Perambalur	May- 2009
M.Phil	Mathematics	Madurai Kamaraj University Madurai	Nov-2004
M.Sc	Mathematics	Seethalakshmi Ramaswami College, Trichy	Apr-1996
B.Sc	Mathematics	Seethalakshmi Ramaswami College, Trichy	Apr-1994

Research Publications (Indexed)

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” AntarticaJ.Math, 11 (1) (2014) 99- 108; ISSN 0972-8643.
4. Dr. P. Senthil Kumar and Mrs. N. Umamaheswari “Stochastic Modeling Neutral Evolution by an IAMBIP 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 **PM** policies 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” Aryabhata 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”, 13th and 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” 18th and 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” 18th and 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 OnThe 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 AnInfinite – 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 ToThe 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 OfThe 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.

18. Dr. N. Umamaheswari,, A. Mahalakshmi, V. Padhmashri and K. Yakeshwari “Stochastic Modeling for Control of hypertension using Weibull distribution”, International Journal of Research Publication and Reviews, IJRPR 73633, ISSN:2582-7421, Volume 4, Issue 9, Sep 2023.
19. Dr. N. Umamaheswari., M. Dharshini, R. Guna Sundari “Stochastic Modeling for Abnormal Glucose Metabolism and Diabetes using Weibull Distribution” International Research Journal of Education and Technology, Peer Reviewed Journal, ISSN 2581 – 7795, IRJEdTVolume : 06, Issue: 11 Nov 2024.

Presentations in Conference

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 InThe 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.
3. Mrs. N. Umamaheshwari 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” 18thand 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” 18thand 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)

Participation in the Conference

REFRESHER COURSE:

1. 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 “Aligning 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.
12. Dr. N. Umamaheswari attended a NEP 2020 “ Orientation and Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-FTP), University Grants commission, Tamil Nadu from 22.01.2024 to 31.10.2024.