

DEPARTMENT PROFILE

DEPARTMENT OF STATISTICS

The Statistics Department started in the year 2013 and is offering **B.Sc.(Statistics)** course with complementary papers Mathematics and Computer Science. The department has been very active in teaching, research and consultancy services. Department organizing various academic programmes like seminars and workshops in each year to equip the students to familiarize the new developments in the subject.

Vision:

To produce professional graduates in the field of statistics and to conduct theoretical and practical studies in the field.

Mission:

To develop statistical and probabilistic theories and techniques, and to disseminate statistical knowledge through teaching and outreach programs, in order to serve the needs of the Society, State and National bodies in research.

Year Established: 2013

Programmes Offered: B.Sc.(Statistics)

Head of the Department: Dr. Girish Babu.M,

Assistant Professor.

Mob: 09447395825

E-mail: giristat@gmail.com

Time Table : Attached

Complementary Courses : Mathematics, Computer Science.

Open Course Offered : Economic Statistics; Quality Control: Basic Statistics.

Syllabus : 2014 Admn.; 2019 Admn. (Attached)

Faculty Profile: (Two faculties)

1. Name : Dr. Girish Babu M.
Assistant Professor.
Mob: 09447395825
E-mail: giristat@gmail.com
2. Edn Qualifications: M.Sc.(Stat), B.Ed, Ph.D., SET, NET.
3. Ph.D. Topic: “Study on Some Generalizations of Weibull Distribution”
4. Awards and Recognitions : 2nd Rank in M.Sc.(Statistics)
5. Date of Joining in Service : 15/03/2004
6. Date of Joining in this college: 03/07/2019
7. Experience :

2002- 2004. Lecturer in Biostatistics, Govt. Medical College, Alappuzha, Kerala, India.

2004-2007. Research Officer, Dept. of Economics and Statistics, Govt. of Kerala, India.

2007-2010. Assistant Director, Dept. of Economics and Statistics, Govt. of Kerala, India.

2010-2019 . Assistant Professor, Dept. of Statistics, Govt. Arts and Science College, Kozhikode, Kerala, India.

2019- till now. Assistant Professor, Dept. of Statistics, CHMKM Govt. Arts and Science College, Koduvally, Kerala, India.

8. Positions Held :
 1. Department Head
 2. State Public Information Officer
 3. IQAC Co-ordinator
 4. Returning Officer College Union
 5. ORICE/IT Cell

6. RUSSA
7. Website Administrator
8. Equipment Monitoring

9. Published Works:

- 1) Jayakumar, K., **Girish Babu, M.** (2015). Some Generalizations of Weibull Distribution and Related Processes, *Journal of Statistical Theory and Applications*, 14(4), 425-434.
- 2) **Girish Babu, M.** (2015). ESTIMATION OF PADDY CROP IN KOZHIKODE DISTRICT OF KERALA BY THE METHOD OF SMALL AREA ESTIMATION, *International Journal of Management and Social Science Research Review*, 1(14), 71-81.
- 3) Unni KN, Priji P, Sajith S, Faisal PA, Shainy KM, Joseph A, **Girish Babu M**, Benjamin S (2016). *Journal of Microbiology and Biotechnology*, 26(8), 1-32.
- 4) **Girish Babu, M.** (2016). On a Generalization of Weibull Distribution and Its Applications, *International Journal of Statistics and Applications*, 6(3), 168-176.
- 5) K. B. Neethu, P. Priji, K. N. Unni, S. Sajith, S. Sreedevi, N. Ramani, K. Anitha, B. Rosana, **Girish Babu M**, S. Benjamin (2016). New *Bacillus thuringiensis* strain isolated from the gut of Malabari goat is effective against *Tetranychus macfarlanei*, *Journal of Applied Entomology*, 140(3), 187-198.
- 6) Jayakumar, K., **Girish Babu, M.** (2017). T-transmuted X family of distributions, *STATISTICA*, 77, 251-276.
- 7) Jisha Velloorvalappil Narayanan, Smitha Robinson Babysarojam, Priji Prakasan, Panichikkal Abdul Faisal, Ramani Niravath, **Girish Babu M**, Sailas Benjamin (2018). Crude *Bacillus thuringiensis* pellets efficiently combats *Eutetranychus orientalis*, the spider mite, *International Journal of Pest Management*, 64(3), 243-251.
- 8) **Girish Babu M**, Jayakumar K, (2018). Characterizations of Weibull Truncated Negative Binomial Distribution, *Proceedings of the National Conference on Advances in Statistical Methods, DEPARTMENT OF STATISTICAL SCIENCES KANNUR UNIVERSITY, KERALA,INDIA*, 105-118.
- 9) Clement Boateng Ampadu, **Girish Babu M**,(2018) Further Developments on the T-Transmuted X family of Distributions, *Biostatistics and Biometrics Open Access Journal*, 7(4), 1-3.
- 10) Clement Boateng Ampadu, Suleman Nasiru, **Girish Babu M** (2018), Further Developments on the T-Transmuted X Family of Distributions II, *Biostatistics and Biometrics Open Access Journal*, 8(3), 1-3.
- 11) Jayakumar, K., **Girish Babu, M.** (2018). Discrete Weibull geometric distribution and its properties, *Communications in Statistics - Theory and Methods*, 47(7), 1767-1783.
- 12) Jayakumar, K., **Girish Babu, M.** (2018). On discrete additive Weibull Geometric distribution and its properties, *Journal of Statistical Theory and Applications*, Vol.18(1), 33-45.
- 13) Sajeev George Pulickal, Sivarama Krishnan, **Girish Babu M**, (2018), COMPARATIVE STUDY OF THE LUNG VOLUME INCLUDED IN THE TANGENTIAL FIELD IN BODY CONTOUR BASED AND CT SCAN BASED 2-DIMENSIONAL RADIATION PLANNING IN BREAST

CANCER TREATMENT, Journal of Evolution of Medical and Dental Sciences, 7(21), 2599-2603.

- 14) **Girish Babu, M.**, Jayakumar, K. (2018). A new bivariate distribution with modified Weibull distribution as marginals, Journal of the Indian Society for Probability and Statistics, 19(2), 271-297.
- 15) Jayakumar, K., **Girish Babu, M.** (2019) Discrete Additive Weibull Geometric Distribution, Journal of Statistical Theory and Applications, 18(1), 33-45.
- 16) **Girish Babu M**, Jayakumar K (2019). A new generalization of the Frechet Distribution: Properties and Application, STATISTICA, 79(3), 267-289.
- 17) **Girish Babu M**, Jayakumar K (2019). On a generalized class of Weibull distribution and its applications, Journal of the Kerala Statistical Association, 30 (1), 21-46

10. Trainings Attended:

<i>Name of the Course</i>	<i>Place</i>	<i>Duration and Date</i>	<i>Name of Academic Staff College/HRDC</i>	<i>Sponsoring Agency</i>
Orientation Programme	University of Calicut	28 days 25.09.2013 to 22.10.2013	ASC Calicut University	UGC
Refresher Course in Environmental Studies (Interdisciplinary)	University of Calicut	22days 08.01.2015 to 29.01.2015	ASC Calicut University	UGC
Refresher Course in Mathematical Science (Mathematics and Statistics)	University of Calicut	13 days 09.12.2019 to 21.12.2019	ASC Calicut University	UGC

11. Paper presentation:

- 1) **Some Generalizations of Weibull Distribution and Related Processes**, presented in the National Conference on Statistics for Twenty-First Century (NCSTS)-2014, in connection with International year of Statistics Celebrations during March 20-22, 2014 organized by the Department of Statistics, University of Kerala, Thiruvananthapuram, India.
- 2) **Analysis and Forecasting of Bombay stock exchange (BSE) Index**, presented in the International Conference on Statistics and Information Technology for a growing Nation, in conjunction with XXXIV Annual Convention of Indian Society for Probability and Statistics (ISPS) and in association with Indian Statistical Institute, Kolkata during 30th November -2nd December, 2014 organized by the Department of Statistics, S.V.University, Tirupathi, Andra Pradesh, India.
- 3) **Some generalizations of Weibull-X family of distributions**, presented in the International Conference on Statistics for Twenty-First Century (ICSTC)-2015, during December 17-19, 2015, organized by the Department of Statistics, University of Kerala, Thiruvananthapuram, India.

- 4) **Weibull Distribution and Its Generalizations**, presented in the National Seminar and Annual Conference of the Kerala Statistical Association (KSA) during February 12-13, 2016 organized by the Department of Statistics, Nirmala College, Moovattupuzha, Kerala, India.
- 5) **A new Generalization of Weibull Distribution and Its Applications in Lifetime Modeling**, presented in the Second International Conference on Statistics for Twenty-First Century (ICSTC)-2016, during December 21-23, 2016 organized by the Department of Statistics, University of Kerala, Thiruvananthapuram, India.
- 6) **On Weibull-geometric distribution**, presented in the National Conference on Advances in Statistical Sciences and Annual Conference of the Kerala Statistical Association (KSA) during February 17-18, 2017 organized by the Department of Statistical Sciences, Kannur University, Kannur, Kerala.
- 7) **On Discrete Additive Weibull Geometric Distribution and Its Properties**, presented in the National Seminar on Recent Trends in Statistical Theory and Applications (NSSTA)-2017 during June 28 -30, 2017 organized by the Department of Statistics, University of Kerala, Thiruvananthapuram.
- 8) **On a Discrete Analogue of T-X Family of Distributions**, presented in the Third International Conference on Statistics for Twenty-First Century (ICSTC)-2017, during December 14-16, 2017 organized by the Department of Statistics, University of Kerala, Thiruvananthapuram.
- 9) **Discrete Type I Half-Logistic Weibull Distribution and Its Properties**, presented in the International Conference on Theory and Applications of Statistics and Information Sciences (TASIS)-2018, in conjunction with XXXVII Annual Convention of Indian Society for Probability and Statistics (ISPS) and in association with Indian Bayesian Society (IBS) during January 5-7, 2018 organized by the Department of Statistics, Bharathiar University, Coimbatore, Tamil Nadu.
- 10) **On Odds X-Weibull family of distributions**, presented in the National Seminar on Innovative Approaches in Statistics in conjunction with the Annual Conference of Kerala Statistical Association (KSA), during February 15-17, 2018 organized by the Department of Statistics, St. Thomas' College (Autonomous), Thrissur, Kerala.
- 11) **On a class of distributions related to T-X family**, presented in the National Seminar during March 13-15, 2018 organized by the Department of Statistics, University of Calicut, Kerala.
- 12) **Characterizations of Weibull truncated negative binomial distribution**, presented in the National Seminar during November 08-10, 2018 organized by the Department of Statistical Sciences, Kannur University, Kerala, India.
- 13) **A new generalization of discrete Weibull distribution**, presented in the Fourth International Conference on Statistics for Twenty-First Century-2018 (ICSTC-2018) during December 13-15, 2018 organized by the Department of Statistics, University of Kerala, Thiruvananthapuram, Kerala.

12. Membership in academic bodies:

- 1) Member Board of Studies of UG Statistics, University of Calicut.
- 2) Member Board of Studies of PG Statistics, University of Kannur
- 3) Life member Kerala Statistical Association
- 4) Life member Indian Society for Probability and Statistics
- 5) Secretary, ALUMNI of Statistics, University of Calicut

13. Research Projects:

Small Area Estimation method for the estimation of Paddy Crop Production in Kozhikode district of Kerala State , Period : 2014-16, Funded by University Grants Commission, Govt of India.

14. Seminars Organized:

Two day workshop on '**Statistical Computing with R**' under the sponsorship of Directorate of Collegiate Education, Government of Kerala during 4th & 5th November 2019.

15. Research Experience:

a) **Editorial member:**

- 1) Journal of Computer Science Research, USA.
- 2) Wireless Communication Technology, Singapore.

b). **Reviewer**

- 1) Pakistan Journal of Statistics, Pakistan.
- 2) Pakistan Journal of Statistics and Operations Research, Pakistan.
- 3) Asian Journal of Statistics and Probability, India.
- 4) Statistica, Italy.
- 5) Journal of Mathematical and Statistical Analysis, USA
- 6) Fluctuations and Noise Letters, Singapore,
- 7) Journal of Biostatistics and Biometric Applications, USA
- 8) Mathematica Slovaca, Slovakia.
- 9) IEEE Access, UK.
- 10) Journal of Engineering Research and Reports, UK.



Name of Faculty: SAJILY V S
Guest Lecturer
Mob:8113939034
Email: sajilyvs333@gmail.com

Educational qualification: MSc. Statistics

Date of joining: 6/7/2020

Experiences:

1. Govt. Arts and Science College, Thrithala
Guest Lecturer (10/1/2019 to 29/3/2019)
2. Kerala Forest Research Institute, Peechi, Thrissur
Project fellow (17/4/2019 to 3/7/2020)

Training attended:

1. Participated in the 4 days national workshop titled “Data analysis for social science research – using R software” organized by School of Business Studies, Department of Commerce and Management Studies, University of Calicut on 24th to 27th June 2019.
2. Completed a short training course on “Collection and Conservation of Lac Insects and Host plants” organized by ICAR-Indian Institute of National Resins and Gums, Ranchi during 19 to 24 August under the Network Project on Conservation of Lac Insect genetic Resources.
3. Attended 14 days Faculty Development Programme conducted at Kerala Forest research Institute under National Science & Technology Entrepreneurship Development Board, Department of Science and Technology, Govt. of India on 21/12/2019 to 4/1/2020.