

	Name	DR. JANE. A. LUKE
	Designation	Associate Professor in Statistics (HOD)
	Qualification	M.Sc; M.Phil ; Ph.D; B.Ed; PGDCA
	Area of Specialisation	STATISTICAL QUALITY CONTROL

Educational Qualification

M.Sc; M.Phil ; Ph.D; B.Ed; PGDCA; DCPT

PUBLICATIONS

• **International Journals**

- 1. Jane A. Luke and K. K. Jose (2012a).** Comparison Between Two Process Capability Indices Using Generalized Confidence Intervals, **International Journal of Advanced Manufacturing Technology**, DOI 10.1007/s00170-013-5244y.
- 2. Jane A. Luke and K. K. Jose (2012b).** On Confidence Intervals for Process Capability Indices in One-Way Random Model, **Communications in Statistics-Simulation and Computation**, **41(10), 1805–1815.**
- 3. Jane A. Luke and K. K. Jose (2012c).** Confidence Intervals for Process Capability Indices for the Unbalanced One-Way Random Effect ANOVA Model, **Quality and Reliability Engineering International**, **28, 371–375.**

4. **Jane A. Luke and K. K. Jose (2011a)**. Comparing Two Process Capability Indices Under Balanced One-Way Random Effect Model, **Quality and Reliability Engineering International**,

National Journals

1. **Jane A. Luke and Dais George (Dec 2015)** : Lower confidence limits for Process Capability Indices, **Catholicate Journal of studies and Research**-Vol. 4, 25-32.
2. **Jane A. Luke and Dais George (Sept 2013)** : Sampling Distributions of the Estimators of Pareto Distribution, **VIRJ for Pure and Applied Science**-ISSN, Vol: 1, 2347-3835.
3. **Jane A. Luke and K. K. Jose (2011)**. Confidence Intervals for Process Capability Index Cpk, Proceedings of the UGC-Sponsored **National Seminar on Discrete Mathematics & Computational Statistics**, 41–53.
4. **Jane A. Luke and Jose K. K.(2010)**. Generalized Confidence Intervals for Variance Components in Two-Way Random Effect model with Balanced Data, **Proceedings of UGC and KSCSTE Sponsored Seminar on New Trends in Applied Statistical Methodology**, 59–72.
5. **Jane A. Luke and K. K. Jose (2006)**. Exponentially Weighted Moving Average Control Chart and Autoregressive Processes, **STARS:Int. Journal**, Vol.7, 23-37.

Seminar Paper presentations

International Paper Presentations

1. “Selecting a Better Supplier Using Generalized Confidence Intervals Method”, **International Conference on Statistics and Information Analytics (ICSIA-2012)**, August 23-25, 2012, Loyola College, Chennai, Tamilnadu.
2. “A Study on Infectious Disease Data Using Bootstrap Technique”, **International Conference on Epidemiology**, August 16-18, 2012, Department of Statistics & Biostatistics, St. Thomas College, Pala, Kerala.
3. “Process Capability Indices for Autocorrelated Data”, **XXXI Annual Convention of Indian Society for Probability and Statistics (ISPS) and International Conference in Statistics, Probability and Related Areas**, December 19–22, 2011, Cochin University of Science and Technology, Cochin, Kerala.
4. “On Confidence Intervals for Process Capability Indices with respect to Unbalanced One-Way Random Effect Model”, **International Conference on Statistics and Information Analytics (ICSIA-2011)**, August 25–27, 2011, Loyola College, Chennai, Tamilnadu.

5. “Calibrated Generalized Confidence Intervals for Process Capability Indices in the One-Way Random Model”, **International Conference on Mathematical Sciences in Honour of Professor A.M. Mathai**, January 3–5, 2011, St. Thomas College, Pala, Kerala.
6. “Process Capability Indices and Generalized Confidence Intervals in General Random or Mixed Effect Model with Balanced Data”, **International Conference on Statistics and Information Analytics (ICSIA-2010)**, January 11–13, 2010, Loyola College, Chennai, Tamilnadu.

National Paper Presentations

1. “Process Capability Indices : A Tool for Selecting The Optimal Supplier”, **National Seminar on Statistical Theory and Applications**, 15-16, Mar. 2013, Dept. of Statistics & Biostatistics, St. Thomas College, Pala .
- 2.. “ Optimal Selection of Suppliers Using Generalized Pivotal Quantity Method: A New Approach”, **National Conference on Statistics for Twenty-first Century [NCSTC-2012]**, December 10-12, 2012, University of Kerala, Trivandrum, Kerala.
3. “ Process Capability Analysis Based on Fuzzy Approach”, **National Seminar on Algebra, Number Theory and Discrete Mathematics**, Government College, November 28-30, 2012, Kattappana, Kerala.
4. “Confidence Intervals for Process Capability Indices Using Fuzzy Approach”, **National Seminar on Recent Advances in Statistics and Related Areas & Annual Conference of Kerala Statistical Association**, March 15–17, 2012, University of Calicut, Calicut, Kerala.
5. “Optimal Selection of Suppliers Using Confidence Intervals for Process Capability Indices”, **National Seminar on Recent Advances in Computational Statistics-Theory and Methods**, February 17–18, 2012, Bharathidasan University, Tiruchirappalli, Tamilnadu.
6. “Confidence Intervals for Process Capability Index Cpk in the One-Way Random Model Using Satterthwaite’s Method”, **National Conference on Advances in Statistical Theory and Applications (ASTA-2011)**, November 16–18, 2011, Bangalore University, Bangalore.
7. “Fuzzy Process Capability Indices”, **National Seminar on Recent Trends in Fuzzy Mathematics and its Applications**, September 22–23, 2011, Newman College, Thodupuzha, Kerala.
8. “Bootstrap Calibrated Generalized Confidence Intervals for Process Capability Index Cpk in the One-Way Random Model”, **National Seminar on Discrete Mathematics and Computational Statistics**, June 23–24, 2011, Bishop Kurialacherry College for Women, Kottayam, Kerala.
9. “Calculation of Generalized Confidence Intervals and Process Capability Indices for Variance Components in Two-Way Random Effect Model with Balanced Data”, **Seminar on New Trends in**

Applied Statistical Methodology & Annual Conference of the Kerala Statistical Association,
February 25–27, 2010, Nirmala College, Muvattupuzha, Kerala.

Participation in the Conferences/workshops

1. National Workshop on “**Campus Faith Formation**”, January 25-26, 2013,
Pastoral Orientation Centre, Kochi, Kerala.
2. National Workshop Basic Course in “**Transactional Analysis**”, January 27, 2013
Institute of Counseling and Transactional Analysis, Kochi Kerala.
3. National Workshop on “**Science Information Literacy & Scholarly Writing**” Mahatma
Gandhi University, Kottayam, Kerala, January 17-19, 2012.
4. National Workshop on “**Minitab 15**”, 11-13, February 2010, Dept. of Statistics,
Nirmala College, Muvattupuzha.
5. National Workshop on “**Methodology Courses**”, 11-13, February 2010, St. Thomas
College, Pala.
6. National Workshop on “**Modern Applied Statistical methods on Statistical Software**
”, 24-26, February 2009, Dept. of Statistics, Nirmala College, Muvattupuzha.
7. National Workshop on “**SAS & SPSS**” June 23-25, 2008 Dept. of Statistics St.
Thomas College Pala

Conferences as Resource Person

Name of the workshop/conference/seminar	Topic	Venue	Date
Key note address delivered on National Statistical Day	“Gender Statistics”	District Office Economics & Statistics, Idukki	29 June 2011
Resource person : National seminar on “Recent advances in statistical theory and computational techniques”	“An Effective Approach for Measuring the Capability of Manufacturing Process”	Catholicate College, Pathanamthitta	6-7, Feb 2015
Resource person : National Seminar on “Advances in Statistical Theory and Computational Applications ”	“Process Capability Indices & Their Applications in Industry”	Newman College, Thodupuzha	29-30, August 2013

Awards and Honours/Participation in Corporate life

- College PTA Secretary from 2014 onwards
- Counselling centre co-ordinator from 2014 onwards.
- Centre for Women Empowerment Co-ordinator from 2012 onwards. Active Women Empowerment Cell co-ordinator during 2005-2010 in Newman College, Thodupuzha.
- Staff Co-operative Board member during 2006-2011, Newman college, Thodupuzha
- Active participation in curricular and co-curricular activities.
- I possess more than 20 years of teaching experience both in Under Graduate and Post Graduate level. Guided 30 M.Sc Mathematics students in their M.Sc project works.
- Member of Inspection Committee for approval of New Courses, M. G. University, 2014

Professional Membership

- **Life member of Kerala Statistical Association**
- **Executive member of Kerala Statistical Association**

Consultancy/Projects undertaken

- Counselling
- Conversant with the softwares : MATLAB, SPSS and R
- Worked as Master Trainer for Supervisors and Enumerators in Socio-Economic Survey (SECC-2012)