



Dr.(Mrs.) V. Jemmy Joyce
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Personal Information:

Name : Dr.(Mrs.) V. Jemmy Joyce
Designation : Assistant Professor
Department : Mathematics
Date of Joining : 09.06.2000

Qualification with Specialization:

Degree	Major	Specialization	Year of Passing	College/ University
Ph.D	Mathematics	Reliability Based Sampling Plans	2012	KU
M.Phil	Mathematics	Functional Analysis	1999	MKU
M.Sc.	Mathematics	Real Analysis	1997	MKU

Teaching Experience:

Classes	years		Institution	Department	Duration
	From	To			
UG	9/6/2000	Till Date	Karunya University	Mathematics	15 years
PG	9/6/2000	Till Date	Karunya University	Mathematics	15 years

Administrative Experience:

Position	Organisation	Duration	
		From	To
Member, Board of Studies	Karunya University	2007	2009

Courses Taught

1. Fourier Series, Transforms and PDE
2. Multiple Integrals, Vector Calculus and Laplace Transforms
3. Complex Variables, Complex integration and Statistics
4. Probability Theory
5. Probability and Random Process
6. Mathematical Statistics
7. Discrete Mathematics
8. Mathematical and Statistical Methods
9. Resource Management Techniques
10. Theory of Equations, Analytical Geometry and Functions of Several Variables.
11. Numerical Methods
12. Statistical Data Analysis and Reliability Engineering

Research

PUBLICATIONS

INTERNATIONAL JOURNALS

1. Devaarul, S. and **Jemmy Joyce, V.** (2010), "Selection of Mixed Sampling Plans for Second Quality Lots". **Economic Quality Control, Germany.** Vol. 25, pp. 31 – 42.
2. **Jemmy Joyce, V.** and Devaarul, S. (2011), "Variable Single Sampling Plans when the fraction defective is Variable in Nature: A Solution using

SDE” **Advances in Theoretical and Applied Mathematics**. Vol. 6, No.2
pp. 153 – 160.

3. **Jemmy Joyce, V.** and Devaarul, S. (2011), “Multidimensional Reliability Sampling Plans based on Progressive censoring”. **Karunya Journal of Research**. Vol. 3. Issue 1, pp. 1 – 7.
4. Devaarul, S. and **Jemmy Joyce, V.** (2013) “Designing and Selection Reliability Sampling Plans Based on Minimum Angle”. **International journal of Mathematics and Computations**. Vo.1. 20. Issue 3,
pp. 60 – 65.
5. **Jemmy Joyce, V.** Devaarul, S. and Rebecca Jebaseeli Edna , K. (2013)
“ Designing And Selection of Mixed Sampling plans based on Tangent Angle”, **International journal of Mathematics and Computer Applications Research**. Vol. 3. Issue 1, pp.217 – 221.
6. Rebecca Jebaseeli Edna , K Devaarul, S. and **Jemmy Joyce, V.** (2013)
“Multidimensional Mixed Sampling Plans for Maximum Allowable Variance”,**International journal of Mathematics and Computer Applications Research** Vol. 3. Issue 1, pp.223– 2287.
7. **Jemmy Joyce, V.** and Rebecca Jebaseeli Edna , K. (2013) “Mixed Sampling Plan When the fraction defective is a function of time”,
International Journal of pure And Applied Mathematics –(SCOPUS)
Vol. 86.No.6, pp 1013 – 1018.
8. Rebecca Jebaseeli Edna , K and **Jemmy Joyce, V..** (2013) “Chain

- Sampling Plan For Variable Non - Conformities”, **International Journal of pure And Applied Mathematics (SCOPUS)**Vol. 87. No.5, pp 729 – 735.
9. **Jemmy Joyce, V.** and Rebecca Jebaseeli Edna, K. (2014) “ $\bar{X}(t)$ Control Chart for Variable fraction defectives”, **International Journal of Applied Mathematics and Statistical Sciences**” Vol.3.issue2, pp 33 – 36.
10. Rebecca Jebaseeli Edna, K and **Jemmy Joyce, V.** (2014) “Control limits for Variable Fraction Defective – P chart”, **International Journal of Applied Mathematics and Statistical Sciences**” Vol.3.issue2, pp 29 – 32.
11. **Jemmy Joyce, V.** and Rebecca Jebaseeli Edna, K. (2014), “Multidimensional Mixed sampling plans for second quality lots”, **International Journal of Applied Engineering Research**, Vol.9 No.20 pp.7305 -7309
12. Rebecca Jebaseeli Edna, K and **Jemmy Joyce, V.** (2014), “Designing and Selection of Mixed sampling plans with two sided complete chain Sampling as Attribute plan”, **International Journal of Applied Engineering Research**, Vol.9 No.20 pp.7143 -7148

Papers Presented in Conferences:

INTERNATIONAL CONFERENCE

1. V. Jemmy Joyce, V and S. Devaarul, “Control chart for variable process Defectives”, *International Conference on Statistics and Information Analytics*, held from Aug. 23 - 25, 2012, at Loyola College, Chennai.

National Conference:

1. Devaarul, S. and **Jemmy Joyce, V** “Selection of optimal double sampling plan through minimal spanning tree technique” UGC Sponsored state level seminar on Application of Graph Theory, held from Mar 12 – 13, 2009, at Chikkanna Govt. Arts College, Tirupur

2. **Jemmy Joyce, V** and Devaarual, S “Variable single sampling plans to control quality of the product when the fraction defective is variable in nature-A solution using SDE”, National Conference on Recent Frontiers in Applied Dynamical Systems, 21-22 January, 2011 at Karunya University

3. **Jemmy Joyce, V.** and Rebecca Jebaseeli Edna “Mixed Sampling plans when the fraction defective is a function of time”, National conference on Mathematical Sciences and Applications, 14-15th March, at Karunya University

National Conference/Workshops/FDP/Training Participated:

S.No	Name of the Event	Date(s)	Address of the Institution/Organization where held	Theme
1.	Short Term Course	05/08/2002 To 10/08/2002	Karunya university	Basics of Computational Fluid Dynamics
2.	Advanced course	25/11/2002 To 30/11/2002	Karunya University	Computational Fluid Dynamics
3.	Quality Improvement Programme	29/04/2002 To 04/05/2002	Karunya University	Instructional Design and Delivery
4.	Seminar	21/03/2003 To 23/03/2003	Karunya University	Advanced Leadership
5.	Seminar	12/06/2003 13/06/2003	Karunya University	Leadership skills development
6.	Workshop	29/09/2007	Karunya University	Revamping Mathematics syllabus – A Slant to Applied Mathematics
7.	Workshop	19/06/2009 20/06/2009	Karunya University	Question Bank

8.	National Conference	9/12/2009 10/12/2009	Karunya University	Discrete & Fuzzy Mathematics
9.	FDP	26/2/2010 27/2/2010	Karunya University	Recent Trends in Applied Mathematics
10.	Workshop	13/8/2010	Karunya University	Optimization using MATLAB
11.	National Conference	21/12/2010 to 23/12/2010	Bharathiar University	Recent Advances in Statistics and Computer Applications
12.	FDP	21/9/2012 to 22/9/2012	Karunya University	Statistical Analysis and Interpretation using SPSS and AMOS
13.	Seminar	29/10/2012	Karunya University	Recent Advances in Soft Computing Theory and Matlab
14.	Short Term course	17/6/2013 To 22/6/2013	Karunya University	Advanced Biblical Counselling – Level I
15.	Seminar	22/10/2013	Karunya University	Statistical Analysis using SPSS
16.	National Conference	27/3/2014 To 28/3/2014	Bharathiar University	Advances in Statistical Theory, Modeling and Applications

Membership Details:

Member, International Association of Engineers.

Member, Indian Mathematical Society.

Ph.D DISSERTATION:

A Study and Contributions to Mixed Sampling Plans and Reliability based Sampling Plans Using Certain Probability Models.

Awards:

1. First class with distinction in M.Sc. Mathematics
2. Received II prize in Proficiency in M.Sc.Mathematics.