



Dr.K.Rebecca Jebaseeli Edna  
Department of Mathematics  
Karunya University  
Karunya Nagar  
Coimbatore – 641 114  
Email:  
Phone:

### Personal Information:

Name : Dr.K.Rebecca Jebaseeli Edna  
Designation :Assistant Professor  
Department :Mathematics  
Date of Joining : 28.08.1998

### Qualification with Specialization:

| Degree | Major       | Specialization            | Year of Passing | College/ University        |
|--------|-------------|---------------------------|-----------------|----------------------------|
| Ph.D   | Mathematics | Acceptance Sampling Plans | 2012            | Karunya University         |
| M.Phil | Mathematics | Functional Analysis       | 1996            | Madurai Kamaraj University |
| M.Sc.  | Mathematics | Functional Analysis       | 1991            | Madurai Kamaraj University |

### Additional Qualification:

| Qualification | Year |
|---------------|------|
| M.Ed          | 1994 |

### Teaching Experience:

| Classes | Years |    | Institution | Department | Duration |
|---------|-------|----|-------------|------------|----------|
|         | From  | To |             |            |          |

|    |      |           |    |             |          |
|----|------|-----------|----|-------------|----------|
| UG | 1998 | Till date | KU | Mathematics | 16 years |
| PG | 2004 | Till date | KU | Mathematics | 11 years |

### Administrative Experience:

| Position                | Organisation       | Duration     |                   |
|-------------------------|--------------------|--------------|-------------------|
|                         |                    | From         | To                |
| Member-Board of studies | Karunya University | 2004<br>2015 | 2007<br>Till date |
|                         |                    |              |                   |

### Courses Taught

- 1.Engineering Mathematics I to IV
- 2.Operations Research
- 3.Discrete Mathematics
- 4.Probability and Random Process
- 5.Differential Geometry
- 6.Probability and Bio-Statistics for Food Sciences
- 7.Basics of Mathematics and Statistics
- 8.Probability and Distributions.

### Research

#### Papers in Journals:

1. Devaarul,S. and **Rebecca Jebaseeli Edna,K.** (2010) Multi-dimensional Mixed Sampling Plans for Dependent case, **Internal Journal of Mathematics and Computations**,Vol 8, No S10,sept 2010,pg 28-38.Ceser, Publications.
2. **Rebecca Jebaseeli Edna,K.** and Devaarul,S. (2011) Attribute Sampling Plans for variable fraction Non-conformities –a product control solution based on Stochastic differential Equation ,**Journal of Advances in Theoretical and Applied Mathematics**.Vol6 No2,pg139-145,Research India Publications
3. **Rebecca Jebaseeli Edna,K.** and Devaarul,S. (2011) Bayesian sampling plans for Multi Dimensional Quality characteristics,**International journal of**

**Emerging Technologies in Science and Engineering**, Vol 4 No 2 July 2011, pg 73-85, Canada

4. Devaarul, S. and **Rebecca Jebaseeli Edna, K.** (2011) Mixed Sampling Product Control Plans for Costly or Destructive Items, **Journal of Mathematical Sciences & Computer Applications**, Vol 1, No 3, pg 85-94, sept 2011, USA

5. Devaarul, S. and **Rebecca Jebaseeli Edna, K.** (2011) Two Sided Complete Chain Sampling Plans for Attribute Quality Characteristics (CChSP- 0, 1), **Karunya Journal of Research**, Vol 3, Issue 1, pg 8-16

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 Computations**, Vol. 3. Issue. 1, pg 223-228

7. 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 Computations**, Vol. 3. Issue. 1, pg 217-222.

8. Jemmy Joyce, V. and **Rebecca Jebaseeli Edna, K.** (2013) Mixed Sampling Plans when the Fraction defective is a function of Time, **International Journal of Pure and Applied Mathematics**, Vol. 86. No. 6, pg 1013 – 1018. **(scopus indexed)**

9. **Rebecca Jebaseeli Edna, K.** and Jemmy Joyce, V. (2013) Chain Sampling Plan for Variable Fraction Non Conformities, **International Journal of Pure and Applied Mathematics**, Vol. 87. No. 6, pg 827 – 833. **(scopus indexed)**

10. 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. issue 2, pp 33 – 36.

11 **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. issue 2, pp 29 – 32.

12. 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

13. **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 .

**Conferences:**

**PAPERS PRESENTED**

**INTERNATONAL CONFERENCE**

1. K.Rebecca Jebaseeli Edna,S. Devaarul, “Control limits for variable fraction defectives – p chart”, International Conference on Statistics and Information Analytics , held from Aug. 23 - 25, 2012, at Loyola College, Chennai.

**NATONAL CONFERENCE**

1. Devaarul,S. and **Rebecca Jebaseeli Edna, K.**, “Selection of optimal single sampling plans through minimal spanning tree technique”in the UGC sponsored state level seminar on Applications of Graph Theory ,Chikkanna Arts College,Tirupur,on March 12-13 ,2009

2.**Rebecca Jebaseeli Edna, K.**and Devaarul,S. ‘Acceptance Sampling Plans for Variable Fraction Non-Conformities – A Product Control Solution Based on Stochastic Differential Equation’ in NCRFADS-2011, Karunya University, Coimbatore from 21<sup>st</sup> and 22<sup>nd</sup> January 2011.

**3. Rebecca Jebaseeli Edna, K.**and Jemmy Joyce, V. “Chain Sampling Plan for Variable Fraction Non Conformities”, National conference on Mathematical Sciences and Applications, 14-15<sup>th</sup> March 2013, at Karunya University

**National Conference/Workshops/FDP/Training:**

**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<br>To<br>10/08/2002 | Karunya university | Basics of Computational Fluid Dynamics                          |
| 2. | Advanced course               | 25/11/2002<br>To<br>30/11/2002 | Karunya University | Computational Fluid Dynamics                                    |
| 3. | Quality Improvement Programme | 29/04/2002<br>To<br>04/05/2002 | Karunya University | Instructional Design and Delivery                               |
| 4. | Seminar                       | 21/03/2003<br>To<br>23/03/2003 | Karunya University | Advanced Leadership   |
| 5. | Seminar                       | 12/06/2003<br>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<br>20/06/2009       | Karunya University | Question Bank   |
| 8. | National Conference           | 9/12/2009<br>10/12/2009        | Karunya University | Discrete & Fuzzy Mathematics                                    |

|     |                     |                                |                       |   |
|-----|---------------------|--------------------------------|-----------------------|---|
| 9.  | FDP                 | 26/2/2010<br>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<br>to<br>23/12/2010 | Bharathiar University | Recent Advances in Statistics and Computer Applications     |
| 12  | FDP                 | 21/9/2012<br>to<br>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  | Seminar             | 22/10/2013                     | Karunya University    | Statistical Analysis using SPSS                             |
| 15  | National Conference | 27/3/2014<br>To<br>28/3/2014   | Bharathiar University | Advances in Statistical Theory, Modeling and Applications   |

### **Membership Details:**

Life Member- ISTE,IAENG,IMS