

CURRICULUM VITAE

OBJECTIVE: To work in a conducive academic atmosphere with the objective of research and teaching good concepts of Statistics, Mathematics, and Operations Research without compromising to the academic ethics.

PERSONAL DETAILS:

Name : **Dr. RAMA SHANKER**
Qualification : M.A., Ph. D (Statistics)
Father's Name : Sri Janardan Sharma
Date of Birth : 31-12-1972
Passport No : Z 1725691
Category : General
Sex : Male
Marital Status : Married
Nationality : Indian



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Pin-801117, India
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Educational Qualifications:

Sr.No	Examination	Year of Passing	Institution	Division	%age	Subjects
1.	Ph.D.	2003	Patna University	Topic: Generalized Logarithmic Series Distributions and their Applications		
2.	M.A.	1996	Patna University	I st	72.00	Statistics (Special Paper: Operations Research)
3.	B.A. (Hons)	1994	Patna College (Patna University)	I st	71.00	Statistics (Hons) Mathematics & Economics as Subsidiary
4.	Intermediate (12 th)	1990	B.I.E.C. Patna	I st	66.33	Maths, Stats., Eco., Eng., Logic & Hindi
5.	Matric (10 th)	1988	B.S.E.B., Patna	I st	68.44	Maths. Phy. Chem., Bio. Hindi, Eng., Social Science, and Economics.

Research Interest:

1. Distribution Theory
2. Statistical Inference
3. Operations Research
4. Reliability and Survival Analysis
5. Bayesian Statistics
6. Biostatistics/Medical Statistics
7. Computational Statistics

Educational Honors and Awards:

1. Awarded Gold Medal for standing first at the M.A. Examination of Patna University.
2. Rank Certificate for standing second at the B.A. Examination of Patna University.
3. National Merit Scholarship from Intermediate to B.A.
4. State Merit Scholarship from Class VII to X.

Undergraduate Statistics courses taught:

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| 1. Statistical Theory of Distributions | 2. Operations Research |
| 3. Statistical Inference | 4. Sample survey (Techniques) |
| 5. Introduction to Probability | 6. Demography |
| 7. Design of Experiments | 8. Mathematical Statistics |
| 9. Linear Programming problem | 10. Introduction to Statistics |
| 11. Research Methods | 12. Actuarial Statistics |

Graduate Statistics courses taught:

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|--|------------------------------------|
| 1. Probability and probability distributions | 2. Operations Research |
| 3. Methods of Multivariate Analysis | 4. Theory of Statistical Inference |
| 5. Biostatistics/Medical Statistics | 6. Theory of Statistics |
| 7. Distribution Theory | 8. Sampling Techniques |
| 9. Industrial Statistics and Optimization | |

Undergraduate Management and Economics courses taught:

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| 1. Basic Mathematics for Social Sciences | 2. Basic Statistics for Social Sciences |
| 3. Mathematics for Business and Economics | 4. Statistics for Business and Economics |
| 5. Calculus for Economists | 6. Linear Algebra for Economists |
| 7. Operations Research (Management Science) | 8. Econometrics/Quantitative Economics |

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Teaching Experience: (Total 23 years and 11 Months):

Sr. No.	Designation	Institution	Period		Subjects / Topics
			From	To	
1.	Associate Professor	Department of Statistics, Assam University	October, 31, 2019	Till date	Teaching Postgraduate courses in Statistics and guiding doctoral students
2.	Professor and Honorary Deputy Director	Devendra Mishra Institute of Statistics	August 14, 2018	October 30, 2019	Mathematical Statistics, Applied Statistics and Operations Research
3.	Professor of Statistics	Eritrea Institute of Technology, Asmara, Eritrea	August 1, 2014	Till 31 st July, 2018	Statistics, Bio statistics and Operations Research
4.	Associate Professor of Statistics	Eritrea Institute of Technology, Asmara, Eritrea	October 24, 2012	July 31, 2014	Statistics, Bio Statistics and Operations Research
5.	Assistant Professor of Statistics	College of Business and Economics, Halhale , Eritrea	April 5, 2006	April 5, 2012	Statistics, Mathematics, and Operations Research
6.	Guest Lecturer	Department of Mathematics, Patna University, Patna, India	March 6, 2002	April 2, 2006	Operations Research
7.	Academic Counselor	IGNOU Study Centre Code - 0572(P), Govt. Polytechnic, Patna ,India	January 2005	December 2005	Mathematics, Discrete mathematics, Computer Oriented Numerical techniques, Operations Research, Numerical and Statistical computing
8.	Academic Counselor	Nalanda Open University, Patna, India	January 2004	March 2006	Mathematics
9.	Academic Counselor	IGNOU Study Centre Code - 0572(P), Govt. Polytechnic, Patna, India	July 2003	May 2004	Mathematics, Computer Oriented Numerical Techniques, Discrete Mathematics, Operations Research
10.	Lecturer (Honorary)	Department of Mathematics, Patna University, Patna, India	October 1998	February 2002	Operations Research
11.	Part-time Lecturer	L.P. Shahi College, Patna, India	January 1997	March 2000	Statistics

Research Publications:

Published Papers

153. Shukla, K.K., and **Shanker, R.** (2020): The Weighted Pranav distribution and Its Application to survival time data, *Indian Journal of Industrial and Applied Mathematics*, 11(1), 79 – 90. ISSN: 0973-4317
152. Shukla, K.K. and **Shanker, R.** (2020): Truncated Akash distribution: Properties and Applications, *Biometrics & Biostatistics International Journal*. 9(5), 179 – 184. ISSN:2378 – 315X
151. **Shanker, R.** and Simon, S. (2020): A size-biased discrete Akash distribution with Properties and Applications, *COJ Technical and Scientific Research*, 3(1), 1 - 6
150. Shukla, K.K. and **Shanker, R.** (2020): Power Prakaamy distribution and Its Applications, *International Journal of Computational and Theoretical Statistics*, 7(1), 25–36. ISSN: 2210 – 1519.
149. **Shanker, R.**, and Shukla, K.K. (2020): A new Quasi Sujatha Distribution, *Statistics in transition-New Series*, 21(3), 53 – 71, ISSN: 1234-7655
148. **Shanker, R.** and Shukla, K.K. (2020): A quasi Poisson-Aradhana distribution, *Hungarian Statistical Review*, 3(1), 3 – 17.
147. **Shanker, R.** and Shukla, K.K. (2020): Zero-truncated version of new three-parameter Poisson-Lindley distribution with properties and applications, *International Journal of Statistics and Reliability Engineering*, 7(1), 49 – 61. ISSN: 2350-0174
146. Shukla, K.K., **Shanker, R.** and Tiwari, M. (2020): Zero-truncated Poisson-Ishita distribution and its Applications, *Journal of Scientific Research (Published from BHU)*, 64(2), 287 – 294. ISSN: 0447-9483
145. Benatmane, C., Zeghdoudi, H., **Shanker, R.** and Noura, L. (2020): Composite Rayleigh-Pareto Distribution: Application to real fire Insurance losses data set, *Journal of Statistics and Management Systems*, 23(3), 1 - 9. ISSN: 0972 - 0510
144. Shukla, K.K. and **Shanker, R.** (2020): The Poisson- Shukla distribution and Its Applications, *Reliability: Theory & Applications*, 15, no. 2(57), 54 – 61. ISSN: 1932 – 2321
143. **Shanker, R.**, Shukla, K.K., and Shanker, R. (2020): A Note on Size-biased New Quasi Poisson-Lindley Distribution and Its Applications, *Biometrics & Biostatistics International Journal*, 9(3), 97 – 104. ISSN:2378 – 315X

142. **Shanker, R.**, Shukla, K.K. and Tekie, A.L. (2020): A new Two-parameter Poisson-Sujatha distribution, *International Journal of Probability and Statistics*, 9(2), 21 – 32. ISSN: 2168-4871
141. **Shanker, R.**, Shukla, K.K. and Tekie, A.L. (2020): Another Two-parameter Poisson-Sujatha distribution, *International Journal of Statistics and Its Applications*, 10(2), 43 – 53. ISSN: 2168-5193
140. **Shanker, R.**, Shukla, K.K. and Tekie, A.L. (2020): A Two-parameter Poisson-Sujatha distribution, *American Journal of Mathematics and Statistics*, 10(3), 70 – 78. ISSN: 2162-948X
139. **Shanker, R.** and Shukla, K.K. (2020): Kamlesh-Rama distribution and Its Applications, *Journal of Probability and Statistical Science*, 18 (1), 1-12, ISSN: 1726-3328
138. **Shanker, R.** and Shukla, K.K. (2020): A new three-parameter size-biased Poisson-Lindley distribution with properties and applications, *Biometrics & Biostatistics International Journal*, 9(1), 1 – 14, ISSN:2378 – 315X
137. **Shanker, R.** and Shukla, K.K. (2019): A Quasi Poisson-Sujatha distribution with Applications, *Journal of Applied Probability and Statistics*, 14(1), 103 – 115.
136. **Shanker, R** and Shukla, K.K. (2019): A generalization of zero-truncated Poisson-Sujatha distribution, *Hungarian Statistical Review*, 2(2), 32 – 50, ISSN: 2630 - 9130
135. Shukla, K.K. and **Shanker, R.** (2019): Shukla distribution and Its Application, *Reliability: Theory & Applications*, 14 (3), 46 – 55, ISSN: 1932 – 2321
134. Sharma, V., **Shanker, R.**, and **Shanker, R.** (2019): On some one parameter Lifetime distributions and Their Applications, *Annals of Biostatistics & Biometrics Application*, 1(2), 1 – 6: ISSN: 2641-6336
133. **Shanker, R.** and Shukla, K.K. (2019): A Zero-truncated Poisson-Aradhana Distribution and Its Applications, *Jordon Journal of Mathematics and Statistics*, 12(1), 255 – 266. ISSN: 2075-7905.
132. Tesfalem, E., and **Shanker, R.** (2019): A two-parameter Weighted Rama distribution with properties and Application, *Universal Journal of Mathematics and Applications*, 2(2), 48 – 58. ISSN: 2619 - 9653
131. **Shanker, R.** and Shukla, K. K. (2019): A two-parameter Power Sujatha distribution with properties and Application, *International Journal of Mathematics and Statistics*, 20(3), 11 – 22. ISSN:0974-7117

130. Shukla, K.K., and **Shanker, R.** (2019): Weighted Ishita Distribution and Its Application to Survival Data, *International Journal of Mathematics and Statistics*, 20(1), 67–82.
ISSN:0974-7117
129. Shanker, R. and Shukla, K.K. (2019): A Generalization of Weibull Distribution, *Reliability: Theory & Applications*, 14 (2), 57 – 70. ISSN: 1932 – 2321
128. **Shanker, R.** and Shukla, K.K. (2019): A Generalization of Generalized Gamma distribution, *International Journal of computational and Theoretical Statistics*, 6(1), 33 – 42.
ISSN: 2210 - 1519
127. Mussie, T. and **Shanker, R.** (2019): Another Two-Parameter Sujatha distribution with Properties and Applications, *Journal of Mathematical Sciences and Modeling*, 2(1), 1 – 13.
ISSN: 2636-8692
126. **Shanker, R.** and Shukla, K.K. (2019): On Poisson-Weighted Lindley distribution and its Applications, *Journal of Scientific Research*, 11(1). 1-13, ISSN: 2070 - 0237
125. Shukla, K.K. and **Shanker, R.** (2019): The Discrete Poisson-Ishita Distribution, *International Journal of Statistics and Economics*, 20(2), 109 – 122. ISSN: 0973 - 7022
124. **Shanker, R.** and Shukla, K.K. (2019): Rama-Kamlesh distribution and Its Applications, *International Journal of Engineering and Future Technology*, 16(4), 11- 22. ISSN: 2455-6432
123. **Shanker, R.**, Berhane, B. and Shukla, K.K. (2019): A discrete Quasi Lindley distribution, *Journal of Probability and Statistical Science*, 17(1), 27 – 41. ISSN: 1726-3328
122. Tesfalem, E., **Shanker, R.** , Shukla, K.K., Tekie, A.L. (2019): Weighted Quasi Akash distribution- Properties and Applications, *American Journal of Mathematics and Statistics*, 9(1), 30 – 43. ISSN: 2162-948X
121. **Shanker, R.** and Shukla, K.K. (2019): A generalization of Poisson-Sujatha Distribution and Its Applications to Ecology, *International Journal of Biomathematics*, 12 (2), 1- 11. ISSN: 1793-5245
120. Berhane, A., Mussie, T., Tesfalem, E., and **Shanker, R.** (2019): A Two-Parameter Power Rama distribution with properties and applications, *Biometrics & Biostatistics International Journal*, 8(1), 6 – 11. ISSN:2378 – 315X
119. **Shanker, R.** and Shukla, K.K. (2019): The Poisson-Weighted Shanker distribution and Its Applications, *International Journal of Engineering and Future Technology*, 16(3), 70 – 81.
ISSN: 2455-6432

- 118. Shanker, R.,** Shukla, K.K., and Tekie, A.L. (2019): Weighted Quasi Lindley distribution with properties and applications, *International Journal of Statistics and Applications*, 9(1), 8 – 20. **ISSN: 2168-5193**
- 117. Shanker, R.,** Shukla, K.K., and Tekie, A.L. (2019): A Generalization of two-parameter Lindley distribution with properties and applications, *International Journal of Probability and Statistics*, 8(1), 1 – 13. **ISSN: 2168-4871**
- 116. Berhane, A.,** Mussie, T., Tesfalem, E., and **Shanker, R.** (2019): A two-parameter Power Garima distribution with properties and applications, *Annals of Biostatistics and Biometric Applications*, 1(3), 1-7. **ISSN:2641 - 6336**
- 115. Shanker, R.** and Shukla, K.K. (2018): Om distribution with properties and Applications *Reliability: Theory and Applications*, 13(4), 51 – 62, **ISSN: 1932 – 2321.**
- 114. Shanker, R.** and Shukla, K. K. (2018): A two-parameter Power Aradhana distribution with properties and Application, *Indian Journal of Industrial and Applied Mathematics*, 9(2), 210 - 220. **ISSN: 0973-4317**
- 113. Berhane, A.** and **Shanker, R.** (2018): A new discrete Akash distribution with application in Biological science, *Journal of Applied Quantitative Methods*, 13(3), **ISSN: 1842-4562**
- 112. Berhane, A.** and **Shanker, R.** (2018): A discrete quasi Akash distribution with applications, *Turkiye Klinikleri Journal of Biostatistics*, 10(3), 187 – 199. **ISSN: 1308 - 7894**
- 111. Shanker, R.** and Shukla, K.K. (2018): The Poisson-weighted Sujatha distribution with properties and Applications, *International Journal of Scientific Research in Mathematical and Statistical Sciences*, 5(5), 231 – 242. **ISSN: 2348-4519**
- 110. Mussie, T.** and **Shanker, R.** (2018): A New Two-Parameter Sujatha distribution with Properties and Applications, *Turkiye Klinikleri Journal of Biostatistics*, 10 (2), 96 – 113. **ISSN: 1308 - 7894**
- 109. Shanker, R.** and Shukla, K.K. (2018): The Poisson-Weighted Akash distribution and Its Applications, *Journal of Applied Quantitative Methods*, 13(2), 23-35. **ISSN: 1842-4562**
- 108. Shanker, R.,** Shukla, K.K. and Tekie, A.L. (2018): A Generalized Poisson-Akash distribution: Properties and Applications, *International Journal of Probability and Statistics*, 8(5), 249 – 258. **ISSN: 2168-4871**
- 107. Shanker, R.,** Shukla, K.K., Shanker, R. and Tekie, A. L. (2018): A size-biased Poisson-Aradhana distribution with Applications, *American Journal of Mathematics and Statistics*, 8(5), 126 – 135. **ISSN: 2162-948X**

- 106. Shanker, R.,** Shukla, K.K. and Tekie, A.L. (2018): A two-parameter Poisson-Akash distribution with properties and Applications, *International Journal of Probability and Statistics*, 7(4), 114 – 123. ISSN: 2168-4871
- 105. Daniel, W., and Shanker, R** (2018): A generalized Aradhana distribution with Properties and applications , *Biometrics & Biostatistics International Journal*, 7(4), 374 – 385. ISSN:2378 - 315X
- 104. Shanker, R.,** Shukla, K.K., Sharma, S. and Shanker, R. (2018): A Quasi Gamma Distribution , *International Journal of Statistics and Applied Mathematics*, 3(4), part C, 208 - 217. ISSN: 2456-1452
- 103. Tesfalem, E. and Shanker, R.** (2018): A Two- parameter Weighted Garima distribution with Properties and Application, *Biometrics & Biostatistics International Journal*, 7(3), 234 – 242. ISSN:2378 – 315X
- 102. Simon. S. and Shanker, R.** (2018): A zero-truncated discrete Lindley distribution with Applications, *International Journal of Statistics in Medical and Biological Research*, 2(1), 8-15
- 101. Shanker, R. and Shukla, K.K.** (2018): A two-parameter Weighted Sujatha distribution and Its Application, *International Journal of Applied Mathematics and Statistics*, 57 (3), 106 – 121. ISSN: 0973 - 1377
- 100. Shanker, R. Shukla, K.K., and Shanker, R.** (2018): A Quasi Aradhana Distribution with properties and Application, *International Journal of Statistics and Systems*, 13(1), 61 – 80. ISSN: 0973-2675
- 99. Shanker, R. Shukla, K.K., Shanker, R.** (2018): A Quasi Poisson-Akash distribution and Its Applications to ecology, *International Journal of Statistics and Applied Mathematics*, 3(3), Part B, 111- 119. ISSN: 2456-1452
- 98. Mussie, T. and Shanker, R.** (2018): A Two-Parameter Sujatha distribution, *Biometrics & Biostatistics International Journal*, 7(3), 188 – 197. ISSN:2378 – 315X
- 97. Shanker, R. and Shukla, K.K.** (2018): A generalized size-biased Poisson-Lindley distribution and its applications to model size distribution of freely-forming small group, *Journal of Scientific Research*, 10 (2), 145 – 157. ISSN: 2070 - 0237
- 96. Berhane, A. and Shanker, R.** (2018): A discrete Akash distribution with Applications, *Turkiye Klinikleri Journal of Biostatistics*, 10(1), 1 – 12. ISSN: 1308 - 7894

95. **Shanker, R.** and Shukla, K.K. (2018): Size-biased Poisson-Weighted Lindley distribution and Its Applications, *International Journal of Statistics and Applied Mathematics*, 3(3), Part A, 146 – 155. ISSN: 2456-1452
94. Shukla, K.K. and **Shanker, R.** (2018): Power Ishita Distribution and its application to model lifetime data, *Statistics in Transition-New Series*, 19(1), 453 – 466. ISSN: 1234-7655
93. Simon, S. and **Shanker, R.** (2018): Size-biased discrete Lindley distribution and Its Applications to model Distribution of Freely-forming small group size, *Biometrics & Biostatistics International Journal* , 7(2), 96 - 101. ISSN:2378 – 315X
92. **Shanker, R.** ,Shukla, K.K. , Sharma, S. and Shanker, R.(2018): A Quasi exponential Distribution, *Biometrics& Biostatistics International Journal*, 7(2), 90 - 94. ISSN:2378 – 315X
91. **Shanker, R.**, Shukla, K.K. (2018): Zero-truncated discrete two-parameter Poisson-Lindley distribution with applications, *Journal of Institute of Science and Technology* , 22(2), 1 – 10. ISSN: 2469-9062
90. Berhane, A. and **Shanker, R.** (2018): A discrete Lindley distribution with Applications in Biological Sciences, *Biometrics and Biostatistics International Journal*, 7(2), 1 – 5. ISSN:2378 – 315X
89. **Shanker, R.** Shukla, K.K., Shanker, R., Pratap, A. (2018): A Generalized Akash Distribution, *Biometrics & Biostatistics International Journal*, 7(1), 1 – 10. ISSN:2378 – 315X
88. **Shanker, R.** and Shukla, K.K. (2018): On Zero-Truncated Quasi Poisson-Lindley distribution and its Applications, *International Journal of Mathematics and Statistics*, 19 (2), 14 – 25. ISSN 0974-7117
87. **Shanker, R.** and Shukla, K.K. (2017): Power Akash distribution and its Application, *Journal of Applied Quantitative Methods*, 12(3), 1 – 10. ISSN: 1842–4562
86. **Shanker, R.** Shukla, K.K. (2017): Power Shanker Distribution and its Application, *Turkiye Klinikleri Journal of Biostatistics*, 9(3), 175 – 187. ISSN: 1308 - 7894
85. **Shanker, R.**, Shukla, K.K. (2017): Zero-truncated new quasi Poisson-Lindley distribution and its Applications, *The Philippine Statistician*, 66 (2), 33 – 46. ISSN, 2094 -0343
84. **Shanker, R.** (2017): A Zero-truncated Poisson-Amarendra Distribution and Its Applications, *International Journal of Probability and Statistics*, 6(4), 82 – 92. ISSN: 2168-4871
83. **Shanker, R.** and Shukla, K.K. (2017): On Two-parameter Akash Distribution, *Biometrics & Biostatistics International Journal*, 6(5), 1 – 11. ISSN:2378 – 315X

82. **Shanker, R.** (2017): Size-biased Poisson-Akash Distribution and Its Applications, *International Journal of Statistics and Applications*, 7(6), 289 – 297. ISSN: 2168-5193
81. **Shanker, R.** (2017): Zero-Truncated Poisson-Akash distribution and Its Applications, *American Journal of Mathematics and Statistics*, 7(6), 227 – 236. ISSN: 2162-948X
80. Shukla, K. K. and **Shanker, R.** (2017): A Simulation Study on Ishita distribution, *Biometrics & Biostatistics International Journal*, 6(4), 1 – 6. ISSN:2378 – 315X
79. **Shanker, R.** and Shukla, K.K. (2017): Zero-Truncated Poisson-Garima distribution with Applications, *Biostatistics and Biometrics Open Access Journal*, 3(1), 1 – 6
78. **Shanker, R.** and Shukla, K.K. (2017): Size-biased Poisson-Garima Distribution with Applications, *Biometrics & Biostatistics International Journal*, 6(3), 1 – 6. ISSN:2378 – 315X
77. **Shanker, R.**, Shukla, K.K., and Mishra, A. (2017): A Three- parameter weighted Lindley distribution and its applications to model survival time data, *Statistics in Transition-New Series*, 18 (2), 291 – 300. ISSN: 1234-7655
76. **Shanker, R.**, and Shukla, K.K. (2017): A zero-truncated two-parameter Poisson-Lindley distribution with an application to Biological Science , *Turkiye Klinikleri Journal of Biostatistics*, 9(2), 85 – 95. ISSN: 1308 - 7894
75. **Shanker, R.** and Shukla, K.K. (2017): Weighted Shanker distribution and its Applications to model lifetime data , *Journal of Applied Quantitative Methods*, 12 (2), 1 – 17. ISSN: 1842-4562
74. **Shanker, R.**, Shukla, K.K., and Hagos, F. (2017): A Generalization of Sujatha distribution and its Applications to Real lifetime data, *Journal of Institute of Science and Technology (JIST)*, 22(1), 77 – 94. ISSN: 2469-9062
73. **Shanker, R.** and Shukla, K.K. (2017): A Quasi Shanker distribution and Its Applications *Biometrics & Biostatistics International Journal*, 6(1), 11- 20. ISSN:2378 – 315X
72. **Shanker, R.** and Mishra, A. (2017): On size-biased two-parameter Poisson-Lindley distribution and its Applications, *American Journal of Mathematics and Statistics*, 7(3), 99 - 107. ISSN: 2162-948X
71. **Shanker, R.** (2017): A Size-biased Poisson-Shanker Distribution and Its Applications, *International Journal of Probability and Statistics*, 6(3), 33 – 44. ISSN: 2168-4871
70. **Shanker, R.** (2017): A Zero-truncated Poisson-Shanker Distribution and Its Applications *International Journal of Statistics and Applications*, 7(3), 159 – 169. ISSN: 2168-5193
69. **Shanker, R.** (2017): Rani Distribution and Its Application, *Biometrics & Biostatistics International Journal*, 6(1), 1 – 10. ISSN:2378 – 315X

- 68. Shanker, R.,** Shukla, K.K. and Hagos, F. (2017): A Two-parameter Lindley distribution: Its Properties and Applications, *Biostatistics and Biometrics Open Access Journal*, 1(2), 1-7
- 67. Shanker, R.** (2017): The discrete Poisson-Aradhana distribution, *Turkiye Klinikleri Journal of Biostatistics*, 9(1), 12 – 22. ISSN: 1308 - 7894
- 66. Shanker, R.** (2017): Suja Distribution and its Application, *International Journal of Probability and Statistics*, 6(2), 11 – 19. ISSN: 2168-4871
- 65. Shanker, R.** and Shukla, K.K. (2017): Ishita distribution and its Applications, *Biometrics & Biostatistics International Journal*, 5(2), 1 – 9. ISSN:2378 – 315X
- 64. Shanker, R.** (2017): Akshaya Distribution and its Application, *American Journal of Mathematics and Statistics*, 7(2), 51 – 59. ISSN: 2162-948X
- 63. Shanker, R.** (2017): The discrete Poisson-Garima distribution, *Biometrics & Biostatistics International Journal*, 5(2), 1 – 7. ISSN:2378 – 315X
- 62. Shanker, R.** (2017): Rama Distribution and its Application, *International Journal of Statistics and Applications*, 7(1), 26 – 35. ISSN: 2168-5193
- 61. Shanker, R.,** Shukla, K.K., Shanker, R. Tekie, A.L. (2017): A three-parameter Lindley distribution, *American Journal of Mathematics and Statistics*, 7(1), 15 – 26. ISSN: 2162-948X
- 60. Shanker, R.,** Hagos, F. Shanker, R. Tekie, A.L., Simon, S. (2017): On discrete Poisson-Shanker Distribution and Its Applications , *Biometrics & Biostatistics International journal*, 5(1), 1- 9. ISSN:2378 – 315X
- 59. Shanker, R.** (2017): The Discrete Poisson-Akash Distribution, *International Journal of Probability and Statistics*, 6(1), 1 -10. ISSN: 2168-4871
- 58. Shanker, R.** (2016): A Quasi Akash Distribution, *Assam Statistical Review*, 30(1), 135 -160. ISSN: 0976 - 4291
- 57. Shanker, R.** and Mishra, A. (2016): A quasi Poisson-Lindley distribution, *Journal of Indian Statistical Association*, 54 (1&2), 113 – 125. ISSN 0537-2585
- 56. Shanker, R.** (2016): On Generalized Lindley Distribution and its Applications to model lifetime data from biomedical science and engineering, *Insights in Biomedicine*, 1(2), 1 – 6. ISSN, 2572-5610
- 55. Shanker, R.** and Shukla, K.K. (2016): Weighted Akash distribution and Its Application to model lifetime data, *International Journal of Statistics*, 39 (2), 1138 – 1147. ISSN: 1927 – 7032.

54. **Shanker, R.** and Shukla, K.K. (2016): On modeling of Lifetime data using three-parameter generalized Lindley and generalized gamma distributions, *Biometrics & Biostatistics International journal*, 4(7), 1- 7. ISSN:2378 – 315X
53. **Shanker, R.** and Hagos, F. (2016): A Size-biased Poisson-Amarendra distribution and Its Applications, *International Journal of Statistics and Applications*, 6(6), 376 – 385. ISSN: 2168-5193
52. **Shanker, R.** (2016): A Quasi Sujatha Distribution, *International Journal of Probability and Statistics*, 5(4), 89 – 100. ISSN: 2168-4871
51. **Shanker, R.** (2016): Garima distribution and Its Application to model behavioral science data , *Biometrics & Biostatistics International journal*, 4(7), 1 – 9. ISSN:2378 – 315X
50. **Shanker, R.** (2016): Sujatha Distribution and Its Applications, *Statistics in Transition-New series*, 17(3), 391- 410. ISSN: 0973-2675
49. **Shanker, R.,** Shukla, K.K., **Shanker, R.** and Tekie, A.L. (2016): On modeling of Lifetime data using two-parameter gamma and Weibull distributions, *Biometrics & Biostatistics International journal*, 4(5), 1 – 6. ISSN:2378 – 315X
48. **Shanker, R. (2016):** The Discrete Poisson-Shanker Distribution, *Jacobs Journal of Biostatistics*, 1(1), 1 – 7
47. **Shanker, R.** and Hagos, F. (2016): On Poisson-Amarendra Distribution and Its Applications, *Biometrics & Biostatistics International Journal*, 4(3), 1 – 10. ISSN:2378 – 315X
46. **Shanker, R.** (2016): The Discrete Poisson-Amarendra Distribution, *International Journal of Statistical Distributions and Applications*, 2(2), 14 – 21. ISSN : 2472-3487
45. **Shanker, R.,** Shukla, K.K. and Hagos, F. (2016): On Weighted Lindley distribution and Its Applications to Model Lifetime Data, *Jacobs Journal of Biostatistics*, 1(1), 1- 9
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38. **Shanker, R.,** Hagos, F. and Teklay, T. (2016): On Poisson-Akash distribution and Its Applications, *Biometrics & Biostatistics International Journal*, 3(6), 1 – 9. ISSN:2378 – 315X
37. **Shanker, R.,** Hagos, F. and Sharma, S. (2016): On Quasi Lindley distribution and Its Applications to Model Lifetime Data, *International Journal of Statistical Distributions and Applications*, 2(1), 1 – 7. ISSN : 2472-3487
36. **Shanker, R.** and Hagos, F. (2016): On Zero-truncation of Poisson, Poisson-Lindley and Poisson-Sujatha distributions and their Applications, *Biometrics & Biostatistics International Journal*, 3(5), 1 – 13. ISSN:2378 – 315X
35. **Shanker, R.** and Hagos, F. (2016): On Poisson-Sujatha Distribution and Its Applications to Model count data from Biological Sciences, *Biometrics & Biostatistics International Journal*, 3(4), 1 – 7. ISSN:2378 – 315X
34. **Shanker, R.** (2016): The Discrete Poisson-Sujatha Distribution, *International Journal of Probability and Statistics*, 5(1), 1 – 9. ISSN: 2168-4871
33. **Shanker, R.** (2016): Amarendra Distribution and Its Applications, *American Journal of Mathematics and Statistics*, 6(1), 44 – 56. ISSN: 2162-948X
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31. **Shanker, R.,** Hagos, F. and Sujatha, S. (2016): On Modeling of Lifetime Data Using One Parameter Akash, Lindley and Exponential Distributions, *Biometrics & Biostatistics International Journal*, 3(2), 1 – 10. ISSN:2378 – 315X
30. **Shanker, R.,** Hagos, F. and Sharma, S. (2016): On Two Parameter Lindley Distribution and Its Applications to Model Lifetime Data, *Biometrics & Biostatistics International Journal*, 3(1), 1 – 8. ISSN:2378 – 315X
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26. **Shanker, R.,** Hagos, F. and Abrehe, Y. (2015): On Size –Biased Poisson-Lindley Distribution and Its Applications to Model Thunderstorms, *American Journal of Mathematics and Statistics*, 5 (6), 354 – 360. **ISSN: 2162-948X**
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21. **Shanker, R.** and Mishra, A. (2014): A Generalized Bivariate Geometric Distribution based on an urn model with stochastic replacement, *Jordan Journal of Mathematics and Statistics*, 7(3), 247- 256. **ISSN: 2075-7905**
20. **Shanker, R.,** Shanker, R., Tekie, A.L. and Abraham, Z. (2014): Size-Biased New Quasi Poisson Lindley Distribution and Its Applications, *International Journal of Statistics and Systems*, 9 (2), 109 – 118. **ISSN: 0973-2675.**
19. **Shanker, R.** and Mishra, A. (2014): A Generalization of Bivariate Negative Binomial Distribution, *Eritrean Journal of Science and Engineering*, 1 (1), 1- 15. **ISSN: 2312 - 0118**
18. **Shanker, R.,** Sharma, S., Shanker, U., Shanker, R. and Tekie, A.L. (2014): The Discrete Poisson Sushila Distribution with Applications, *International Journal of Statistics and Analysis*, 4 (2), 101-107. **ISSN: 2248 - 9959**
17. **Shanker, R.,** Sharma, S., Shanker, U., Shanker, R. and Tekie, A.L. (2014): The Discrete Poisson-Janardan Distribution with Applications, *International Journal of Soft Computing and Engineering*, 4 (2), 31-33. **ISSN: 2231-2307**

16. **Shanker, R.** and Tekie, A.L. (2014): A New Quasi Poisson Lindley Distribution, *International Journal of Statistics and Systems*, 9 (1), 87-94. ISSN: 0973-2675
15. **Shanker, R.** and Mishra, A. (2014): A Two Parameter Poisson- Lindley Distribution, *International Journal of Statistics and Systems*, 9(1), 79-85. ISSN: 0973-2675
14. **Shanker, R.** and Mishra, A. (2013): On a Size-Biased Quasi Poisson Lindley Distribution, *International Journal of Probability and Statistics*, 2(2) ,28-34. ISSN: 2168-4871
13. **Shanker, R.,** Sharma, S., Shanker, U. and Shanker, R. (2013): Sushila Distribution and its Application to waiting Times Data, *Opinion- International Journal of Business Management, Special Issue on Role of Statistics in Management and Allied Sciences*, 3(2), 01-11. ISSN: 2277-4637
12. **Shanker, R.,** Sharma, S., Shanker, U. and Shanker, R. (2013): Janardan Distribution and its Application to Waiting Times Data, *Indian Journal of Applied Research*, 3, Issue 8, 500 – 502. ISSN. 2249-555X.
11. **Shanker, R.** and Amanuel, A.G. (2013): A New Quasi Lindley Distribution, *International Journal of Statistics and Systems*, 8 (2), 143 – 156. ISSN: 0973-2675
10. **Shanker, R. (2013):** Size-Biased Discrete Two Parameters Poisson- Lindley Distribution and Its Applications, *Global Journal of Pure and Applied Mathematics*, 9(4), 325- 334. ISSN : 0973-1768
9. Sharma, S., **Shanker, R.** and Shanker, R. (2013): A Modified Zero Suffix Method for finding an optimal solution for transportation problems, *European Journal of Scientific Research*, 104 (4), 673 – 676. ISSN : 1450-216X
8. **Shanker, R.** and Mishra, A. (2013): A Two-Parameter Lindley Distribution, *Statistics in Transition new Series*, 14(1), 45-56. ISSN: 1234-7655
7. **Shanker, R.** and Mishra, A. (2013): A Quasi Lindley Distribution, *African Journal of Mathematics and Computer Science Research (AJMCSR)* , 6 (4), 64 – 71. ISSN: 2006-9731
6. **Shanker, R.,** Sharma, S. and Shanker, R. (2013): A Two Parameter Lindley Distribution for Modeling Waiting and Survival Times Data, *Applied Mathematics*, 4 (2), 363 – 368. ISSN: 2152-7385
5. **Shanker, R.,** Sharma, S. and Shanker, R. (2012): A Discrete Two Parameter Poisson Lindley Distribution, *Journal of Ethiopian Statistical Association (JESA)*, 21, 22 – 29. ISSN: 1605-962X.
4. Mishra, A. and **Shanker, R.** (2004): A New Generalized Geometric Distribution, *Assam Statistical Review*, 18 (1) 20-30. ISSN: 0976 - 4291

3. Mishra, A. and **Shanker, R.** (2002): A Generalized Bivariate Negative Binomial Distribution for Four-fold Populations, *Journal of the Bihar Mathematical Society*, 22, 103-110. ISSN: 0972 – 8716.
2. Mishra, A. and **Shanker, R.** (2002): Generalized Logarithmic Series Distribution – Its Nature and Applications: *Proceedings of the Vth international symposium on optimization and statistics* held at Aligarh Muslim University, Aligarh, Dec. 28 – 30, 155-168
1. Sharma, S., Singh, J.N., Quabili, M.R. and **Shanker, R.** (1999): A Modified form of Pivot and Probe Algorithm for Linear Programming: *J. Mathematical Theory*, 1(2), 10-16.

Current Research Activities

1. Lifetime Distributions, their mixtures, generalizations and Applications in various fields.
2. Linear and non linear programming, Transportation problems and Assignment problems.

Seminars/Conferences Attended and Paper Presented:

1. A paper entitled “**A New Generalization of Geometric Series Distribution**” presented at the XXth Annual Conference of Indian Society for probability and Statistics (ISPS) and National Seminar on Industries Oriented Statistical Research and Annual Conference of Bayesian Society of India, held at Pt. Ravi Shankar Shukla University , Raipur (Chhatisgarh), India, February, 19-21,2001.
2. A paper entitled “**Generalized Bivariate Negative Binomial Distribution for Four-fold Populations**” presented at the International Conference on Statistical Inference and Reliability, the XXI Annual Conference of Indian Society for Probability and Statistics (ISPS) and Annual Conference of Indian Chapter of International Society of Bayesian Analysis, held at Punjab University, Chandigarh, India, December, 21-24, 2001.
3. A paper entitled “**Generalized Logarithmic Series Distribution – Its nature and Applications**” presented at the Vth International Symposium on Optimization and Statistics, held at Aligarh Muslim University, Aligarh, (U.P.) India, December, 28-30, 2002.
4. A paper entitled “**On Estimation of Quasi Binomial Distribution**” presented at VIIth Conference of International Academy of Physical Sciences (CONIAPS – VIIth), held at University of Allahabad, Allahabad, (U.P.) India, December, 21-23, 2004.
5. A paper entitled “**A Generalization of Gurland Distribution**”, presented at the National Seminar on Mathematics, held at Xavier’s College, Ranchi, (Jharkhand), India, April 22 – 24, 2005.
6. A paper entitled “**Transportation problem with mixed constraints**”, presented at International conference on Operation Research Applications in Engineering and Management (ICOREM), organized by Department of Management Studies, Anna University, Tiruchirappalli, Tamilnadu, India, May, 27-29,2009.

7. A paper entitled, “**A modified Zero suffix method for finding optimal solutions of transportation problem**” presented at National Conference organized by University of Jammu, Jammu, India, October, 18-20, 2013
8. A paper entitled, “**A bi-parameter new quasi Lindley probability distribution**” presented at 2014 Joint Mathematics Meetings of American Mathematical Society and Mathematical Association of America, Baltimore Convention Center, Baltimore, MD, January, 15-18, 2014
9. Delivered a plenary talk on, “**On Zero-Truncated Poisson, Poisson-Lindley, and Poisson Sujatha distributions and Their Applications**” at National conference on Time Series, Analytics & Recent Advances in Statistical Modeling, organized by the Department of Statistics, Central University of Rajasthan, Rajasthan, India, 24-25 August, 2015.

Invited Speaker and Chair in Conferences:

1. **An artificial free-simplex method for solving linear programming problem** at Delhi College of Technology and Management, Faridabad, Haryana, 5th September 2008.
2. **On Zero-truncated Poisson, Poisson-Lindley and Poisson-Sujatha Distributions and Their Applications** at National Conference on Time Series, Analytics, & recent Advances in Statistical Modeling, Central University of Rajasthan, Rajasthan, India, 24-25 August, 2015.
3. **Chaired the session** titled, “**Sampling theory, Demography, and Statistical Quality Control**” at National Conference on Time Series, Analytics, & recent Advances in Statistical Modeling, Central University of Rajasthan, Rajasthan, India, 24-25 August, 2015.
4. Delivered a **Chief Guest Lecture** on the topic, “**Statistics - A Key Technology for Social Transformation in 21st century**” in Nilambar Pitambar University, Daltonganj, Jharkhand, India on 11th August, 2017
5. Delivered **Invited Special Lecture** on the topic, “**How To Get What You Want**” in Nilambar Pitambar University, Daltonganj, Jharkhand, India on 12th August, 2017
6. Delivered **Prof. Devendra Mishra memorial Lecture** on, “**Statistics-The most useful but the most misused and misunderstood subject**” at Department of Statistics, Patna University, Patna, India, on 6th July, 2018
7. Delivered invited Lecture as resource person on, “**Uses and Misuses of Statistics in the present Era**,” at Department of Mathematics, Vinoba Bhave university, Hazaribagh, Jharkhand, organized by Commission for Scientific and Technical Terminology, Ministry of Human resource Development, New Delhi, 12-13, July, 2018
8. Delivered a motivational lecture for M.Sc students on, ‘**How to Bring the Best in Yourself**’ at Department of Statistics, Patna University, Patna, India, on 20th July, 2018

9. Delivered an invited talk as resource person on, “**On some weighted distributions with Properties and Applications**”, in International conference in an international conference on Recent Trends in Mathematics and Scientific Computing, Department of mathematics, Magadh University, BodhGaya, September, 18 – 19, 2018.
10. **Chaired some session** in International conference on Recent Trends in Mathematics and Scientific Computing, organized by Department of Mathematics, Magadh University, Bodhgaya, September, 18 – 19, 2018.
11. Delivered an invited talk as resource person on, **Qualitative Higher Education in Jharkhand- Challenges and Solutions** in a national seminar on qualitative higher education and industrial development of Jharkhand, 28 -29, November, 2018, organized by the university department of Economics, Nilambar Pitambar university, Daltonganj, Jharkhand.
12. Delivered an invited talk as resource person on, **Statistics and Its Applications in other disciplines** in a national conference on recent trends in research in Applied Sciences-An Interdisciplinary Approach, 6-7, December, 2018, organized by the Department of Physics and Botany, Nilambar Pitambar university, Daltonganj, Jharkhand.
13. **Chaired technical session 2** of a national conference on recent trends in research in Applied Sciences-An Interdisciplinary Approach, 6-7, December, 2018, organized by the Department of Physics and Botany, Nilambar Pitambar university, Daltonganj, Jharkhand.
14. Delivered an invited talk as resource person on, “**Statistics and Its uses in modeling how to get what you want in life**” in the international conference on “Recent Trends in Mathematical Modeling”, held during 05 - 06, March 2019, at Mangalayatan University, Uttar Pradesh, India

Book Published:

1. **Introduction to Calculus for Business and Economics, GRD Prakashan, New Delhi (September, 2014) with ISBN 9788192346724.**

Winter / Summer School/ Development Programme attended:

1. Winter school on **Operations Research and its Applications** at SQC & OR Unit, Indian Statistical Institute (ISI), Hyderabad, from 17th January 2005 – 5th February 2005.
2. Summer School on **Stochastic Processes and Applications**, Department of Mathematics, Indian Institute of Technology (IIT) Guwahati (Assam) July 11-23, 2005.
3. Management Development Programme on **Multivariate Data Analysis (MDA, 2011)** at the Vinod Gupta School of Management, Indian Institute of Technology, Kharagpur, West Bengal, July 4-9, 2011
4. Short Term Course on **Business Research Methods**, Department of Humanities and Social Sciences, Indian institute of Technology, Kharagpur, West Bengal, July11-23, 2011.

Professional Memberships:

1. Editor-In-Chief: **Eritrean Journal of Science and Engineering (EJSE) (Till Dec, 2016)**
2. Life Member of **International Indian Statistical Association (IISA).**
3. Life Member of **Bihar Mathematical Society (BMS).**

Associate Editor

1. Biostatistics and Biometrics Open Access Journal (BBOAJ), USA
2. Biometrics & Biostatistics International Journal, USA

Editorial Board Members of Journals:

1. Jacobs Journal of Biostatistics
2. International Journal of Statistics in Medical and Biological Research
3. Canadian Journal of Biomedical Research and Technology
4. International Journal of Engineering Research Science and Management
5. Biomedical Research Journal
6. MOJ current Research Reviews
7. Biomed Research Journal

International Advisory Board Members of Journals

1. Turkiye Klinikleri Journal of Biostatistics, Turkey
2. Journal of Harmonized Research in Applied Sciences, India
3. International Journal of Soft Computing and Engineering(TM), India
4. International Journal of Management and Humanities, India
5. International Journal of Education and Research, India

Reviewers of Research papers In Journals

1. Sankhya, Indian Journal of Statistics
2. Communications in Statistics-Theory and Methods
3. Austrian Journal of Statistics
4. Metron, International Journal of Statistics
5. Journal of the Egyptian Mathematical Society
6. Computational Statistics
7. Annals of the Brazillian Academy of Sciences

Conference Organizing Committee Members

1. The 18th annual cum 1st International conference of Vijnana Parishad of India on “Computational and Integrative Sciences in Honor of Prof. H.M. Srivastava and International Symposium on Computational Biology in Honor of Prof. V.P. Saxena, Dec 11 – 14, 2015, organized by Department of Mathematics and Computer Applications, Maulana Azad national Institute of Technology, Bhopal- 462003, Madhya Pradesh, India
2. The 5th International conference on Biometrics and Biostatistics, October 20 -21, 2016, Houston, USA

3. Scientific committee member of 11th International Statistics Days Conference (11th ISDC), October 03 – 07, 2018 organized by Department of Statistics, Mugla Sitki Kocman University, Bodrum, Turkey

Course Coordinator and Curriculum Developer (April 2006 to April 2012):

Developed Course Curriculum, Course lectures, handouts, and Assignments for the following subjects at the College of Business and Economics, Halhale, Asmara, Eritrea

1. **Basic Mathematics for Social Sciences** (For First Semester Freshman Students)
2. **Basic Statistics for Social Sciences** (For Second Semester Freshman Students)
3. **Mathematics for Business and Economics** (For 1st Semester, 2nd Year Students)
4. **Statistics for Business and Economics** (For 2nd Semester, 2nd Year Students)
5. **Calculus for Economists** (For 2nd semester, 3rd Year Students of Economics)
6. **Linear Algebra for Economists** (For 1st Semester, 3rd Year Students of Economics)
7. **Operations Research** (For 1st Semester, 4th Year Students of Management and Marketing)

Course Coordinator and Curriculum Developer at Eritrea Institute of Technology (October 2012 to July, 2018)

Developed Course Curriculum, Course lectures, handouts, and Assignments for the following Courses at the Department of Statistics, College of Science, Eritrea Institute of Technology, Asmara, Eritrea

1. **Introduction to Statistics** (Common course for all Second Year Natural Science Degree Students)
2. **Basic Statistics** (Common course for all second year social science Degree students)
3. **Elementary Statistics** (Common course for all second year Science Diploma Students)
4. **Introduction to Probability** (Mathematics Education 4th year Degree students)
5. **Mathematical Statistics** (Mathematics 4th year Degree students)
6. **Operations Research** (Mining and Process Engineering 5th year students)
7. **Biostatistics** (M.Sc - Botany and Zoology students)
8. **Theory of Statistics** (M.Sc - Statistics Students)
9. **Theory of Statistical Inference** (M.Sc - Statistics Students)
10. **Distribution Theory** (M.Sc - Statistics Students)
11. **Multivariate Statistical Analysis** (M.Sc - Statistics Students)

Computer Skills:

Statistical software : SPSS, MAPLE and R

Professional Strengths:

1. **Visionary approach** towards growth and advancement of the Department in general and the institution in particular
2. **Effective leadership** skills with emphasis on team work
3. **Self-motivated initiatives** from conception of idea, groundwork, to implementation, and improvement
4. **High self-confidence**, excellent **communication skills** and **acumen**.