

Curriculum Vitae

PERSONAL DETAILS:

Name : Prof. RAMA SHANKER
Qualification : M.A., Ph. D (Statistics)
Father's Name : Sri Janardan Sharma
Date of Birth : 31-12-1972
Passport No : C 9727350
Category : General
Sex : Male
Marital Status : Married
Nationality : Indian



Contact Address

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Pin-801109, 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. Operations Research
3. Reliability and Survival Analysis
4. Biostatistics/Medical 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 |

Graduate Statistics courses taught:

- | | |
|---|--------------------------------------|
| 1. Probability Theory | 2. Operations Research |
| 3. Methods of Multivariate Analysis | 4. Statistical Inference |
| 5. Biostatistics/Medical Statistics | 6. Theory of Statistics |
| 7. Distribution Theory | 8. Sampling Techniques |
| 9. Industrial Statistics and Optimization | 10. Real Analysis and Linear Algebra |

Undergraduate Management and Economics courses taught:

- | | |
|---|--|
| 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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AD Scientific Index ID: 497000

WIDWAN- ID : 208658

Project: Ongoing project is, "A study on Methodology of Monetizing the work done by Women at home in Assam, India", from Department of Economics & Statistics, Assam.

Teaching Experience: (Total 27 years):

Sr. No.	Designation	Institution	Period		Subjects / Topics
			From	To	
1	Professor	Department of Statistics, Assam University, Silchar, Assam, India	May 10, 2024	Till date	Teaching Postgraduate courses in Statistics and guiding doctoral students
2.	Associate Professor	Department of Statistics, Assam University, Silchar, Assam, India	October, 31, 2019	May 09, 2024	Teaching Postgraduate courses in Statistics and guiding doctoral students
3.	Professor and Honorary Deputy Director	Devendra Mishra Institute of Statistics, Patna, India	August 14, 2018	October 30, 2019	Mathematical Statistics, Applied Statistics and Operations Research
4.	Professor of Statistics	Eritrea Institute of Technology, Asmara, Eritrea	August 1, 2014	Till 31 st July, 2018	Statistics, Bio statistics and Operations Research
5.	Associate Professor of Statistics	Eritrea Institute of Technology, Asmara, Eritrea	October 24, 2012	July 31, 2014	Statistics, Bio Statistics and Operations Research
6.	Assistant Professor of Statistics	College of Business and Economics, Halhale , Eritrea	April 5, 2006	April 5, 2012	Statistics, Mathematics, and Operations Research
7.	Guest Lecturer	Department of Mathematics, Patna University, Patna, India	March 6, 2002	April 2, 2006	Operations Research
8.	Academic Counselor	IGNOU Study Centre Code - 0572(P), Govt. Polytechnic, Patna ,India	January 2005	December 2005	Mathematics, Discrete mathematics, Operations Research, Numerical and Statistical computing
9.	Academic Counselor	Nalanda Open University, Patna, India	January 2004	March 2006	Mathematics
10.	Academic Counselor	IGNOU Study Centre Code - 0572(P)	July 2003	May 2004	Discrete Mathematics, Operations Research
11.	Lecturer (Honorary)	Department of Mathematics, Patna University, Patna, India	October 1998	February 2002	Operations Research

Administrative Experiences:

1. Head of Department of Statistics, Assam University, Silchar from 09.07.2020 to 10.07.2023 (Three years)
2. Honorary Deputy Director, Devendra Mishra Institute of Statistics, Patna from 14.08. 2018 to 30. 10.2019 (one year and three months)
3. Head of Department of Statistics, College of Science, Eritrea Institute of Technology, Eritrea from July, 2013 to July, 2018 (Five Years)

Awarded and Ongoing Ph. D. Guideship:

1. Sample Size Estimation for Contraceptive Clinical trials: An Empirical Study (Anadya Prakash Tripathi- Registered in 2020): (Degree Awarded in May, 2024).
2. Statistical Modeling of Head and Neck Cancer Prevalence in Bihar (Alok- Registered in 2020). (Degree Awarded in March, 2025).
3. On Generalized Sujatha Distributions and Their Applications (Hosenur Rahman Prodhani - Registered in 2021). (Degree Awarded in February, 2026).
4. A study on compounding of positively skewed Distributions and Their Applications (Mousumi Ray - Registered in 2021): (Degree Awarded on 27th February, 2026).
5. Generalization of Uma Distribution and Their Characterization (Jyotirmoyee Baishya- Registered in 2023, (Ongoing and Likely to submit thesis in January, 2027)
6. Characterization of Poisson mixture with Generalized Sujatha Distribution (Riki Tabassum- Registered in 2023, (Ongoing and Likely to submit thesis in January, 2027)
7. Generalization of Amarendra Distribution and Their Characterization (Ipshita Sarma- registered in 2024), (Ongoing)

Research Publications:

List of Published Paper

234. Prodhani, H.R. and Shanker, R. (2026): Transmuted Sujatha distribution with properties and Applications in Engineering, *Lobachevskii Journal of Mathematics*, 47(2), 867 – 883: ISSN: 1995-0802.
233. Alok., Shanker, R., Rastogi, M.K., Vidyarthi, A., and Kumar, A. (2026): Prognostic factor and disease-free survival Analysis of patients with oral tongue cancer in Bihar, India: A hospital based retrospective study, *Cancer Research, Statistics and Treatment* , 9(2), 108 – 121, April-June, 2026: ISSN: 2590-3233.
232. Shanker, R., Prodhani, H.R., Ray, M. and Deb, J. (2026): Power quasi Rama distribution with properties and applications in reliability engineering, *Journal of Probability and Statistical Science*, 24(1), 50-73. February, 2026. ISSN: 1726-3328

- 231.** Prodhani, H.R. and **Shanker, R.** (2025): Weighted generalized Sujatha distribution with statistical properties and applications, *Reliability: Theory & Applications*, 21, No 1(90), 109 – 123.. ISSN: 1932 – 2321.
- 230.** Baishya, J. and **Shanker, R.** (2025): An extended Uma distribution with Statistical Properties and Applications to real lifetime data, *International Journal of Statistics and Reliability Engineering*, 12 (2), 131 -142: ISSN: 2456-2378.
- 229.** Tabassum, R. and **Shanker, R.** (2025): Statistical Properties and Estimation of parameters of two-parameter Poisson-Sujatha Distribution with Applications, *International Journal of Statistics and Reliability Engineering*, 12 (2), 120-130: ISSN: 2456-2378
- 228.** Tabassum, R. and **Shanker, R.** (2025): On Statistical properties and Application of Poisson-Sujatha distribution, *Hungarian Statistical Review*, 8(2), 94 – 110. ISSN of 2630-9130.
- 227.** Prodhani, H.R. and **Shanker, R.** (2025): On Statistical Properties, Estimation of parameter and Applications of New X-Lindley distribution, *Biometrics & Biostatistics International Journal*, 14(2), 96 – 110. ISSN: 2378 – 315X
- 226.** **Shanker, R.**, Tabassum, R., Baishya, J., Ray, M. (2025): Statistical properties and applications of Poisson-Suja distribution, *Biometrics & Biostatistics International Journal*, 14(2), 85 – 94. ISSN: 2378 – 315X
- 225.** Prodhani, H.R. and **Shanker, R.** (2025): The truncated Sujatha Distribution with Properties and Applications in Engineering and Medical Sciences, *Journal of Statistical theory and Practice* 19, September, ISSN: 1559-8616
- 224.** **Shanker, R.**, Ray, M., Prodhani, H.R. and Rahman, U.H. (2025): A new three-parameter generalized Lindley Probability Model with Engineering Applications, *Journal of Probability and Statistical Science*, 23(1), 1-26, August 2025, ISSN: 1726-3328
- 223.** **Shanker, R.** and Shukla, K.K. (2025): The Poisson compound of new quasi Sujatha distribution with statistical properties and Applications, *OPSEARCH*, ISSN: 0975-0320
- 222.** **Shanker, R.** (2025): Shreekanth distribution with Properties and Applications to model Stress and Strength Data from Engineering, *Reliability: Theory & Applications*, 20 , 2(84)) ISSN: 1932 – 2321.
- 221.** **Shanker, R.**, Tabassum, R., Ray, M., Prodhani, H.R. and Nath, P. (2025): A quasi Poisson-Suja Distribution with Properties and Applications, *International Journal of Statistics and Reliability Engineering*, 12(1), 52-61.: ISSN: 2456-2378

- 220. Shanker, R.,** Ray, M., Prodhani, H. R. and Boruah, J. (2025): Weighted quasi Rama Distribution with properties and Applications in Engineering, *International Journal of Statistics and Reliability Engineering*, 12(1), 18-34.: **ISSN: 2456-2378**
- 219. Shanker, R.,** Ray, M., Tabassum, R. and Singh, Y.S.K. (2025): The Poisson-Pratibha Probability model with statistical properties and Applications, *Asian Journal of Probability and Statistics*, 27(6), 84-101. : **ISSN: 2582 - 0230**
- 218. Shanker, R,** Baishya, J. and Tabassum, R. (2025): Statistical Properties and Applications of Poisson-Garima distribution, *Biometrics & Biostatistics International Journal*, 14(2), 45 – 51. **ISSN: 2378 – 315X**
- 217. Shanker, R.,** Tabassum, R., Sarma, I. and Saikia, P. (2025): The Poisson compound of Komal distribution with statistical properties and Applications, *Biometrics & Biostatistics International Journal*, 14(1), 35-43 **ISSN:2378 – 315X**
- 216. Ray, M. and Shanker, R.** (2025): The Gamma-Akash probability model for survival analysis of cancer patients, *Brazilian Journal of Biometrics*, 43 (2): **ISSN: 2764-5290**
- 215. Shanker, R.** Ray, M. and Shukla, K.K. (2025): The Poisson-Rama distribution with Properties and Applications. *Brazilian Journal of Biometrics*, 43(2): **ISSN: 2764-5290**
- 214. Shanker, R.** Saharia, J. and Shukla, K.K. (2025): The Poisson-Suja distribution and Its Applications in Biological Count Data sets, *Reliability: Theory & Application*, 20, 1(82), 1009 – 1019. **ISSN: 1932 – 232**
- 213. Prodhani, H.R. and Shanker, R. (2025):** A generalized power Sujatha distribution with properties and Applications, *Reliability: Theory & Applications*, 20, 1(82), 373 – 387. **ISSN: 1932 – 2321.**
- 212. Baishya, J. and Shanker, R. (2025):** On some statistical properties and Applications of Uma distribution, *Biometrics & Biostatistics International Journal* 14(1), 21-27., **ISSN:2378 – 315X**
- 211. Shanker, R.** and Prodhani, H.R. (2024): Size-biased Sujatha distribution with properties and Application to model flood data, *Research and Review: Journal of Statistics*, 13(1). 31 – 47. **ISSN: 2278-2273**
- 210. Shanker, R.** and Shukla, K.K. (2024): The Poisson-Uma distribution with Properties and Applications to model thunderstorm events, *Research and Review: Journal of Statistics*, 13(1), 20-30. **ISSN: 2278-2273**
- 209. Ray, M. and Shanker, R. (2024):** A compound of Exponential and Komal Distribution with properties and Application, *Biometrics & Biostatistics International Journal*, 13 (5), 147 – 152. **ISSN:2378 – 315X**

- 208.** Alok., **Shanker,R.**, Rastogi, M.K., Vidyarthi, A., and Kumar, A. (2024): Demographic and Epidemiological profile of Head and Neck cancer patients in Bihar: A hospital based retrospective study, *Cancer Research, Statistics and Treatment*, 7 (3), 301-307 : **ISSN: 2590-3233**
- 207.** Prodhani, H.R. and **Shanker, R.** (2024): Power Pratibha Distribution with properties and Applications, *International Journal of Statistics and Reliability Engineering*, 11 (2), 217 -226 : **ISSN: 2456-2378**
- 206.** Shanker, R., Soni, N.K., **Shanker, R.**, Ray, M. and Prodhani, H.R. (2024): A two-parameter Aradhana distribution with Applications in Reliability Engineering, *Reliability: Theory & Applications*, 19, 3(79), 757 – 774. **ISSN: 1932 – 2321.**
- 205.** Ray, M. and **Shanker, R.** (2024): A Probability model for survival analysis of cancer patients. *Reliability: Theory & Applications*, 19, 3(79), 78 – 94.**ISSN: 1932 – 2321.**
- 204.** Prodhani, H.R. and **Shanker, R.** (2024): An extended Sujatha distribution with statistical properties and Applications, Accepted for publication in, *Biometrics & Biostatistics International Journal*,13 (4), 96 – 105. **ISSN:2378 – 315X**
- 203.** Prodhani, H.R. and **Shanker, R.** (2024): On weighted Amarendra Distribution with properties and Applications, *Biometrics & Biostatistics International Journal* , 13(3), 76-88. **ISSN:2378 – 315X**
- 202.** Prodhani, H.R. and **Shanker, R.** (2024): Weighted Pratibha distribution with properties and Application in flood dataset, *Biometrics & Biostatistics International Journal*, 13(2), 52 – 57. . **ISSN:2378 – 315X**
- 201.** **Shanker, R.** and Ray M. (2024): Power Amarendra Distribution with properties and Applications, *Journal of Scientific Research of Banaras Hindu University*. 68(2), 17 – 23, **ISSN: 0447-9483**
- 200.** **Shanker, R.**, Alok and Rastogi, M. (2024): A new one parameter lifetime distribution with Applications in Survival Analysis of Cancer Patients, *International Journal of Statistics and Reliability Engineering* 11(1), 123 – 129. **ISSN: 2456-2378.**
- 199.** Prodhani, H.R. and **Shanker, R.** (2024): A three-parameter Power Sujatha Distribution with properties and Applications, *International Journal of Statistics and Reliability Engineering*, 11(1), 70 – 78. **ISSN: 2456-2378.**
- 198.** **Shanker, R.**, Das, R. and Shukla, K.K. (2024): An extended Suja Distribution with properties and Applications, *Biometrics & Biostatistics International Journal*, 13(1), 16 – 21. **ISSN:2378 – 315X**

- 197.** Tripathi, A. P., and Shanker, R. (2024): Longitudinal analysis and sample size calculation in contraceptive studies, *International Journal of Statistics and Applied Mathematics*, 9(1), 01 – 05. ISSN:2456-1452.
- 196.** Alok., Shanker,R., Rastogi, M.K., Vidyarthi, A., and Kumar, A. (2024): Risk Factor Determinants and Comparison of Supervised Machine Learning Algorithms to Predict Head and Neck Cancer, *Biometrics and Biostatistics International Journal*, 13(1), 1 – 5. ISSN:2378 – 315X.
- 195.** Shanker, R. and Shukla, K.K. (2023): A generalization of Generalized Poisson-Lindley distribution and Its Applications, *Journal of Modern Applied Statistical Methods*, 22(2), 1-19. ISSN 1538 – 9472
- 194.** Tripathi, A. P., and Shanker, R. (2023): Considerations and challenges in determining sample sizes for contraceptive trials targeting specific populations, *Journal of Mathematical Problems, Equations and Statistics*, 4(2), 27 – 31. ISSN:2456-1452.
- 193.** Shanker, R., Baishya, J., Ray, M. and Prodhani, H.R. (2023): Power Uma distribution with properties and applications in survival analysis, *Journal of XIDIAN University*, 17(12), 849 – 860. ISSN:1001-2400.
- 192.** Shanker, R., Ray, M., and Prodhani, H.R. (2023): Power Komal distribution with Properties and Applications, *Reliability: Theory & Applications*, 18(4(76)), 591 – 603. ISSN: 1932 – 2321.
- 191.** Ray, M. and Shanker, R. (2023): A compound of exponential and Shanker Distribution , *Journal of Scientific Research of Banaras Hindu University*, 67(4), 39 – 46. ISSN: 0447-9483
- 190.** Shukla, K.K.,Shanker, R., Tiwari, M.K., and Ababneh, F. (2023): Size-biased Poisson-Pranav distribution and Its Applications, *International Journal of Agricultural & Statistical Sciences*, 19(2), 863 -872. ISSN: 0976-3392
- 189.** Tripathi, A. P. & Shanker, R. (2023): An Empirical Estimate of sample size for clinical studies on the efficacy of a new contraceptive method, *Journal of XIDIAN University*, 17(11), 1182 – 1194. ISSN:1001-2400.
- 188.** Shanker, R., Soni, N.K., Shanker, R., and Prodhani, H.R. (2023): A New Quasi Aradhana Distribution with Properties and Applications, *Journal of XIDIAN University*, 17(11), 472 – 493. ISSN:1001-2400.
- 187.** Shanker, R., Ray, M., and Prodhani, H.R. (2023): Weighted Komal distribution with properties and Applications, *International Journal of Statistics and Reliability Engineering*, 10(3), 541- 551. ISSN: 2456-2378.
- 186.** Shanker, R., Zakaria, A.F.M., Prodhani, H.R., and Ray, M. (2023): Weighted Uma Distribution with properties and Applications, *Journal of XIDIAN University*, 17(10), 830 – 846,

ISSN:1001-2400.

185. Shanker, R., Das, H. and Shukla, K.K. (2023): A Quasi Rama Distribution, *Model Assisted Statistics Applications*, 18, 267 – 277. ISSN:1574-1699.

184. Shanker, R. (2023): Pratibha distribution with Statistical Properties and Application, *Biometrics & Biostatistics International Journal*, 12 (5), 136 – 142. . ISSN:2378 – 315X.

183. Shanker, R. and Shukla, K.K. (2023): Power Weighted Sujatha distribution with Properties and Application to survival times of patients of Head and Neck Cancer, *Reliability: Theory and Applications*, 18(3), 568- 581. ISSN: 1932 – 2321.

182. Prodhani, H.R. and **Shanker, R. (2023):** On Some Statistical Properties and Applications of Three-Parameter Sujatha Distribution, *Reliability: Theory and Applications*, 18(3), 514 – 527. ISSN: 1932 – 2321.

181. Ray, M. and Shanker, R. (2023): A Compound of Gamma and Shanker Distribution, *Reliability: Theory and Applications*, 18(2), 87 – 99. ISSN: 1932 – 2321

180. Shanker, R. and Shukla, K.K. (2023): Weighted Adya Distribution with properties and Application, *Biometrics & Biostatistics International Journal*, 12(3), 68 – 74. ISSN:2378 – 315X

179. Shanker, R. (2023): Komal Distribution with properties and Application in Survival Analysis, *Biometrics & Biostatistics International Journal*, 12(2), 40 – 44. ISSN:2378 – 315X

178. Tripathi, A. P. & **Shanker, R.** (2023): Sample Size Estimation for a Non-Inferiority Pain Management Trial, *The Open Pain Journal*, 16, 1- 6. ISSN: 1876 - 3863.

177. Shukla, K. K., and **Shanker, R.** (2022): Truncated Prakaamy distribution: Properties and Applications, *Aligarh Journal of Statistics*, 42, 91 – 102. ISSN:0971-0388

176. Shanker, R. (2022): Uma Distribution with Properties and Applications, *Biometrics & Biostatistics International Journal*, 11 (5), 165 – 169. ISSN:2378 – 315X.

175. Shanker, R., Upadhaya, R. and Shukla, K.K. (September 2022): A Quasi Suja distribution, *Reliability: Theory and Applications*, 17 (3), 162 - 178 , ISSN: 1932 – 2321

174. Shanker, R. and Shukla, K.K. (2022): The Poisson-Adya distribution, *Biometrics & Biostatistics International Journal*, 11(3), 100 – 103. ISSN:2378 – 315X.

173. Shukla, K.K. and **Shanker, R.** (2022): On Statistical Properties and Applications of Poisson-Pranav distribution, *Biometrics & Biostatistics International Journal*, 11(3), 93 – 98. ISSN:2378 – 315X.

172. Shanker, R. and Shukla, K.K. (2022): Power Weighted Akash distribution with Properties and Applications, *Reliability: Theory and Applications*, 17(2), 111 - 126, ISSN: 1932 – 2321 (June)

171. Shukla, K.K. and **Shanker, R.** (2022): Truncated Ram Awadh distribution: Properties and Applications, *International Journal of Tomography and Simulation*, 35(1), 36 – 59. ISSN. 0972 – 9976.
170. **Shanker, R.** Shukla, K. K. and Shanker, R. (2022): A Note on weighted Aradhana distribution with an Application, *Biometrics & Biostatistics International Journal* 11(1), 22 -26. ISSN: 2378 – 315X
169. Shukla, K.K., Rahman, S.A., Singh, R., and **Shanker, R.** (2021): ARIMA model for Covid-19 and Its Prediction in India, *Biometrics & Biostatistics International Journal* 10(4), 176 – 183, ISSN:2378 – 315X
168. **Shanker, R.** and Rahman U.H.(2021): Type II Topp-Leone Frechet distribution with Properties and Applications, *Statistics in transition-New Series*, 22(4), 139 – 152, ISSN: 1234-7655
167. **Shanker, R.** and Shukla, K.K. (2021): A zero-truncated discrete quasi Lindley distribution and Its Applications, *Turkiye Klinkileri Journal of Biostatistics*, 13(1), 1 – 12, ISSN: 1308 - 7894
166. Shukla, K. K. and **Shanker, R.** (2021): Inverse Pranav Distribution: Properties and Applications, *International Journal of Imaging and Robotics*, 21(2), 39 - 51 ISSN. 0974-0627
165. Shukla, K. K. and **Shanker, R.** (2021): Truncated Shukla Distribution: Properties and Applications, *Reliability: Theory and Applications*, 16(3), 41 – 55, ISSN: 1932 – 2321
164. Shukla, K.K., **Shanker, R.** and Tiwari, M. (2021): A new one parameter discrete distribution and Its Applications, *Journal of Statistics and Management Systems*, 25 (1), 269 – 283. ISSN:0972-0510
163. **Shanker, R.**, Shukla, K.K, Tiwari, M. K. and Tekie, A.L. (2021): A generalization of size-biased Poisson-Sujatha distribution, *Journal of Mathematical and Computational Science*, 11(6), 6811- 6828. ISSN. 1927 - 5307
162. Mukherjee, I., Sudhansu S. M, and **Shanker, R.** (2021): On estimation of the Probability mass function and the cumulative distribution function of a Natural Discrete one parameter Polynomial exponential distribution, *International Journal of Applied Mathematics and Statistics*, 60(3), 49-61. ISSN.0973 – 1377.
161. **Shanker, R.**, Shukla, K.K., Ranjan, A. and Shanker, R. (2021): Adya distribution with properties and application, *Biometrics & Biostatistics International Journal*. 10 (3), 81 – 88, ISSN:2378 – 315X

- 160.** Shukla, K.K. and **Shanker, R.** (2021): Size- biased Poisson-Ishita Distribution and its Applications to Thunderstorm Events, *Journal of Statistics Applications and Probability*, 10(1), 113-122 **ISSN:2090-8423**
- 159.** Shukla, K.K. and **Shanker, R.** (2020): The Poisson- Prakaamy distribution and Its Applications, *Aligarh Journal of Statistics*, 40, 137 – 150, **ISSN: 0971 – 0388.**
- 158.** Simon, S. and **Shanker, R.** (2020): A zero-truncated discrete Akash distribution with Properties and Applications, *Hungarian Statistical Review*, 3(2), 12 – 25. **ISSN: 2630 - 9130**
- 157.** **Shanker, R.** and Rahman, U.H. (2020): A new Two-Parameter Lindley distribution, *Nepal Journal of Mathematical Sciences*, Vol. 1, 33 – 42, **ISSN. 2738 – 9812.**
- 156.** 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**
- 155.** Shukla, K.K. and **Shanker, R.** (2020): Truncated Akash distribution: Properties and Applications, *Biometrics & Biostatistics International Journal*. 9(5), 179 – 184. **ISSN: 2378 – 315X**
- 154.** **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, ISSN: 2643-7066
- 153.** 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.**
- 152.** **Shanker, R.**, and Shukla, K.K. (2020): A new Quasi Sujatha Distribution, *Statistics in transition-New Series*, 21(3), 53 – 71, **ISSN: 1234-7655**
- 151.** **Shanker, R.** and Shukla, K.K. (2020): A quasi Poisson-Aradhana distribution, *Hungarian Statistical Review*, 3(1), 3 – 17. **ISSN: 2630 - 9130**
- 150.** **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**
- 149.** 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**
- 148.** 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**

147. 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
146. **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
145. **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
144. **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
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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**, *European Journal of Scientific Research*

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.

List of Accepted Papers

1. Prodhani, H.R. and **Shanker, R.** (2026): Power Quasi Sujatha Distribution with properties and Applications (Accepted for publication in *Statistics in Transition-new series*)
2. Baishya, J. and **Shanker, R.,** Sinha, U.K. (2026): A modified Uma distribution with Properties and Applications (Accepted for publication in, *Reliability: Theory & Applications*)
3. **Shanker, R** and Sarma, I. (2026): A modified Amarendra distribution with Properties and Applications (Accepted for publication in, *Hungarian Statistical Review*)
4. **Shanker, R.,** Tabassum, R. and Baishya, J. (2026): A quasi Poisson-Rama distribution with properties and applications (Accepted for publication in, “*Journal of Reliability and Statistical Studies*”)

5. Sarma, I. and **Shanker, R.** (2026): Properties, Estimation and Applications of Poisson-Amarendra distribution (Accepted for publication in, *International Journal of Statistics and Reliability Engineering*)
6. Tabassum, R., **Shanker, R.** and Sinha, U.K. (2026): Structural properties, Estimation and Applications of quasi Poisson-Sujatha Distribution, Accepted for publication in, *Journal of Statistical Theory and Practice*)
7. Shanker, R., Tabassum, R, Sarma, I., and Selvaraj, S. (2026): Statistical properties, Entropy measures and applications of Poisson-Shanker distribution in automobile insurance claim frequency data (Accepted for publication in “*Biometrics & Biostatistics International Journal*)

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.
10. **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.
11. Organized and Chaired a special session entitled, “Distribution Theory” in the 7th International Conference on “Recent Advances and Its Applications (RAMSA-2024)” organized by the Department of Mathematics, Jaypee Institute of Information Technology, Noida, India, during February, 29-March, 02, 2024.
12. Chaired Session in an International Conference on Innovative Trends in Statistics, Optimization, and Data Science (IC-ITSODS-2024), held during December 21st to 23rd, 2024, at Kurukshetra University, Kurukshetra, Haryana, India.
13. Chaired a session in “Indo Bhutan Social Science Conference (IBSSC-2025) organized by Department of Business Administration, Assam University, Silchar, in academic collaboration with Paro College of Education, in association with Silchar management Association, Silchar, Assam, during 3rd September to 6th September, 2025.
13. Chaired session in the International Conference on “Global Advances in Statistical Modelling, Optimization Techniques and Data Science (IC-GASMOTDS-2025)” being organized in collaboration with the 9th Convention of the Indian Association for Reliability and Statistics (IARS), held during November 28 to 30, 2025, M.D. University, Rohtak, Haryana, India
14. Chaired a technical session in National Seminar on “Shifting Geopolitics in South Asia- Opportunities and Constraints for India during January 9-10, 2026, organized by ICSSR-NERC, Shillong, Meghalaya & Department of Political Science, Assam University, Silchar, Assam, India.

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, Bodh Gaya, 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, Bodh Gaya, 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. 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.

14. Delivered an invited talk as resource person on **(a) Statistics and Its Applications In Real Life on 24.02.2022 and (b) On some measures of Correlation Coefficients** on 25.02.2022 in the Interdisciplinary Refresher Course in ‘Basic Mathematical and Statistical Tools for Research’ conducted by UGC-Human Resource Development Centre, Manipur University, Canchipur, Imphal, during February 12-25, 2022.
15. Delivered an invited talk as Resource person on **“Optimization Techniques”** in Interdisciplinary Refresher Course in Computational Mathematics and Applications (MMC-005-2024-JAN-A-01921) under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Albert Einstein School of Physical Sciences, Assam University, Silchar, under the aegis of Malviya Mission Teacher Training Centre, Assam University, Silchar from August 5th to August 19th, 2024.
16. Delivered an invited talk as resource person on, **“Statistics and Its Applications in Real Life Situations”** in two weeks refresher Course entitled Recent Advances I Mathematics, Statistics and Computer Science, organized by Malaviya Mission Teacher Training Center (MMTTC), Central University of South Bihar (CUSB), Gaya under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) from 14th to 26th October, 2024 on 25th October, 2025.
17. Delivered an invited talk as resource person on, **“On compounding of distributions with their Properties & Applications”** in an International Conference on Innovative Trends in Statistics, Optimization, and Data Science (IC-ITSODS-2024), held during December 21st to 23rd, 2024, at Kurukshetra University, Kurukshetra, Haryana, India.
18. Delivered two invited talk entitled **(a) Academic Leadership in Higher Educational Institutions and (b) Relationship between Teaching and Research and Its Impact on Social Transformation** conducted on 10th and 17th November, 2025 in Two-Week Refresher Course entitled, *“Recent Trends and Challenges in Teaching & Research in language Studies and Social Sciences: An Indian Knowledge Perspective”* organized by Department of Sanskrit in collaboration with Department of Social Work, Assam University, Silchar under the aegis of Malaviya Mission Teacher Training Centre (MMTTC), Assam University, Silchar during November 10-23, 2025.
19. Delivered an invited talk as resource person on, **“Compounding of distributions and Their Applications”** in the International Conference on “Global Advances in Statistical Modelling, Optimization Techniques and Data Science (IC-GASMOTDS-2025)” being organized in collaboration with the 9th Convention of the Indian Association for Reliability and Statistics (IARS), held during November 28 to 30, 2025, M.D. University, Rohtak, Haryana, India.
20. Delivered an invited talk as resource person on, **“On Recent Generalization of Sujatha distribution and their characterization”** in the Eleventh International Conference on Statistics for the Twenty-First Century (ICSTC 2025), held during December 16 to 19, 2025, Department of Statistics, University of Kerala, Kerala, India.

Book Published:

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

Master(M.Sc) Thesis Supervised and Examined in Statistics.

1. Discretization of some continuous distributions and Their Applications (2018, Eritrea)
2. On Weighted Continuous distributions and Their Applications (2018, Eritrea)
3. On Generalized Sujatha Distributions and Their Applications (2018, Eritrea)
4. On Weighted Quasi Aradhana Distribution and their Applications (2020, India)
5. An Analysis on the Computation of the Performance of the Batters and Accordingly Rank Them (2020, India)
6. Education Dropout and Early Marriage: A case study on Rural people of Village Kanchanpur Part II, Assam (2020, India)
7. Analysis of Levels and Trends in Infant and Child Mortality Rates in India (2020, India)
8. A Study on Quasi Rama Distribution with Properties and Applications (2021, India)
9. A study on Quasi Suja Distribution with Properties and Applications (2021, India)
- 10 A study on Two-Parameter Suja Distribution with Properties and Applications (2021, India)
11. Pattern in Various Crimes Incidences observed in North-Eastern Women's Over 2001-2020 in Meghalaya (2021, India)
12. A Study on power Quasi Rama Distribution with Properties and Applications (2022, India)
13. A Study on Poisson-Suja Distribution with Properties and Applications (2022, India)
14. A study on Quasi Poisson-Suja Distribution with Properties and Applications (2022, India)
15. A study on Weighted Quasi Rama Distribution with Properties and Applications (2022, India)
16. A study on Power Uma Distribution with properties and Applications (2023, India)
17. A study on two-parameter weighted Uma distribution with properties and Applications (2023, India)
18. A time series Analysis of yahoo Finance stocks (2023, India)
19. A study on Poisson-Komal distribution with properties and Applications (2023, India)
20. A study on Poisson-Pratibha distribution with properties and Applications (2023, India)
21. A study on size-biased and zero-truncated version of Poisson-Pratibha distribution with their properties and Applications (2024, India)
22. A study on zero-truncated Poisson-Komal distribution with their properties and Applications (2024, India)
- 23, A comparative study of finding initial basic feasible and optimal solution of transportation problems (2024, India)
24. A study on the optimal solution for integer interval transportation problems (2025, India)

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, July 11-23, 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 **Indian Society for Probability and Statistics (ISPS)**.
4. Life member of **Indian Association for Reliability and Statistics (IARS)**
5. 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

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

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**.

Date: 02.06 .2026

Place: Silchar, Assam

Rama Shanker