Krishnagar Government College

FACULTY MEMBERS' ACADEMIC PROFILE

- 1. Name of the Faculty member: DR. SUBRATA RANA
- 2. Designation: Assistant Professor in Statistics (WBES)
- **3. Qualification:** Ph.D.
- 4. Specialization: Bio-Statistics
- 5. E-mail address: ranasubrata@gmail.com
- 6. Date of Joining in W.B.E.S.: 10.09.2014.
- 7. Date of Joining in this College: 10.09.2014.
- 8. Total Teaching experience in College level: 9+ years
- 9. Research interests: Missing data, Categorical data analysis.
- Title of thesis (Ph.D.) with year: Analysis of Multivariate Ordinal Data under some Complex Models.
- Research guidance: Co-supervising a Ph.D. scholar (Sagnik Acharyya) registered at Department of Statistics, Visva-Bharati.
- 12. Research Projects (Completed and ongoing): Nil.
- **13.** List of publications:
 - A) Published papers in Journals:
 - "Estimation of odds ratio from group testing data with misclassified exposure", Surupa Roy, Sumanta Adhya and Subrata Rana, *Biometrical Journal*, 2024, 66(1), 2200254, DOI: <u>10.1002/bimj.202200254</u>. [ISSN 1521-4036 (Online), 0323-3847 (Print); IF: 1.3]
 - "A study on the performance of various predictive models based on artificial neural network for backward metal flow forming process", P. Banerjee, R. Laha, M. K. Dikshit, N. Hui, S. Rana, V. K. Pathak, K. Saxena, C. Prakash, D. Buddhi, International Journal on Interactive Design and Manufacturing, 2022, DOI: 10.1007/s12008-022-01079-6, [ISSN 1955-2513 (print) 1955- 2505 (web); IF: 2.639].
 - "Analysis of longitudinal ordinal data using semiparametric mixed model under missingness". Subrata Rana, Communications in Statistics – Simulation and Computation, 2020, 1-14 [ISSN 0361-0918 (print) 1532-4141 (web); IF: 1.118].
 - "Analysis of ordinal longitudinal data under nonignorable missingness and misreporting: An application to Alzheimer's disease study", Subrata Rana, Surupa Roy and Kalyan Das, Journal of Multivariate Analysis, July, 2018, 166, 62-77 [ISSN 0047-259X; IF: 1.368].



- "Evaluation on Alzheimer's disease progression based on clinical dementia rating scale with missing responses and covariates", Kalyan Das, Subrata Rana and Surupa Roy, Journal of Biopharmaceutical Statistics, November, 2017, doi: 10.1080/ 10543406.2017.1402780 [ISSN 1054-3406; IF: 0.994].
- "Clustered data analysis under miscategorized ordinal outcomes and missing covariates", Surupa Roy, Subrata Rana and Kalyan Das, Statistics in Medicine, August, 2016, 35, 3131-3152 [ISSN 1097-0258; IF: 1.861].
- "On analyzing ordinal data when responses and covariates are both missing at random", Subrata Rana, Surupa Roy and Kalyan Das, Statistical Methods in Medical Research, August, 2016, 25(4), 1564-1578 [ISSN 0962-2802; IF: 4.701].

14. Membership of Learned Societies/ Editorial Boards, etc.: Life member of Calcutta Statistical Association.

- 15. Patents: Nil.
- 16. Awards: Nil.
- **17. Other notable activities:** Served as Nodal Officer of Nadia district in the sample survey on 'Old age, Widow and Disability Pension', conducted by the Government of West Bengal during 2016-17.

18. A) Participation in Seminars/Symposia/Conferences/Workshops:

- 1. Presented paper entitled "Ordinal Family Data Analysis in Presence of Measurement Errors" in the Fifth Regional Science and Technology Congress organized by the Department of Science and Technology and Biotechnology, Government of West Bengal and West Bengal State University on 20th January, 2023.
- Presented paper entitled "Analysis of Ordinal Longitudinal Data Under Nonignorable Missingness and Misreporting" in the Tenth International Triennial Calcutta Symposium on Probability and Statistics held in the Department of Statistics, University of Calcutta on 29th December, 2018.
- **3.** Participated in the **Lecture Series** on 'Probability and Statistics' held at the Department of Statistics, Visva-Bharati University on **15th -16th July, 2016**.
- Presented paper entitled "Clustered data analysis under miscategorized ordinal outcomes and missing covariates" in the International level Two day Seminar on 'Probability and Statistics' held in the Department of Statistics, West Bengal State University on 28th -29th March, 2016.
- 5. Presented paper entitled "Analyzing longitudinal ordinal data when responses and covariates are both missing" in the National level Seminar 'STATQUEST 2016' held in the Department of Statistics, University of Calcutta on 18th March, 2016.

B) Participation in OP/RC:

- Participated in the Instructional Schools for Teachers (IST) Advanced Topics in Statistical Learning (2022) at Indian Statistical Institute (ISI) Kolkata from 11th July, 2022 to 23rd July, 2022.
- Participated in the Refresher Course on Mathematics & Statistics (Pure & Applied) at UGC HRDC, Gauhati University, Guwahati from 24th January, 2022 to 07th February, 2022.
- 3. Participated in the **Refresher Course in Research Methodology** at UGC HRDC, Utkal University, Bhubaneswar from **11th September**, **2018 to 01st October**, **2018**.
- 4. Participated in the **37th Orientation Programme** at UGC HRDC, Kumaun University, Nainital from **05th February**, **2018 to 07th March**, **2018**.