

1. About the Department:

The Department of Statistics was established in the year 2016 by introducing B.Sc. Generic Elective programme.

2. Vision of the Department:

- ❖ Understand basic concepts of statistics and its different branches.
- ❖ Analyze the applicability and use of statistics in various diverse fields.
- ❖ Develop knowledge of the various aspects of tools of descriptive statistics.
- ❖ Apply the tools and techniques in analyzing different types of real life data.

5. Courses offered: B.Sc. Generic Elective (GE)

FACULTY PROFILE

Name : Ms Snigdha Mahanta

Educational Qualification : M.Sc., Pursuing Ph.D.

Designation : Assistant Professor, Department of Statistics,
MDKG College, Dibrugarh.

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1. M. Phil Topic/Ph. D. Topic (if any) :

I am doing Ph.D. in Institute of Advanced Study in Science and Technology (IASST), an autonomous research institute, under DST, Govt. of India. My Ph.D. topic is “Studies on feedback queueing system under different vacation policies”.

2. Research articles in Journals :

- (i) "On $M / \left(\begin{smallmatrix} G_1 \\ G_2 \end{smallmatrix} \right) / 1 / V$ (MV) queue with two types of general heterogeneous service with Bernoulli feedback", Snigdha Mahanta & Gautam Choudhury, '*Cogent Mathematics & Statistics*', (2018), 5: 1433577, UGC CARE list, **Taylor and Francis publisher.**
- (ii) "An analytical approach of Markov modulated Poisson input with feedback queue and repeated service under N-policy and setup time", Snigdha Mahanta, Nitin Kumar & Gautam Choudhury, has been published in the journal of '*Quality Technology and quantitative management*', (2023), **Taylor and Francis publisher**, indexed in **SCI expanded, PubMed, Scopus** etc., UGC CARE list, **Impact Factor: 2.6 .**

3. Chapters in Edited Books :

- (i) **Mahanta S. and Goswami A. (2014).** "*A Statistical Analysis of School Examination Results Data*", **Mosaic**, Research Publication, ISBN: 978-93-82283-91-1
- (ii) **Mahanta S. and Goswami A. (2020).** "*Analysis of Multiple Vacation Policy on M/G/1 Queueing System* ", **Recent Advances in Multidisciplinary Research**, Research Publication, ISBN: 81-8324-984-1
- (iii) **Mahanta S. and Goswami A. (2022).** "*The stochastic decomposition result of Poisson arrival queue on M/G/1 two types of general heterogeneous service with N-policy and general setup time*", **Intellect**, Research Publication, ISBN: 978-81-952976-4-1

4. Papers Presented at Seminars :

- (i) Attended, participated and presented a research paper entitled "**Analysis of the reliable single server queue with Bernoulli feedback and optional re-service**" in international seminar on "**International Conference on Computational Mathematics & Statistics**", organized by Department of Mathematics & Statistics,

Banasthali University, India and co-organized by Department of Mathematics, University Putra Malaysia, Malaysia, during January 24-26, 2017.

- (ii) Participated in a **“National level workshop on MATLAB”**, organized by Department of Electronics & Communication Engineering, Gauhati University, during 1st July to 15th July, 2016.
- (iii) Participated in **“2nd National Workshop on Medical Image Processing”**, organized by Institute of Advance Study in Science and Technology (IASST), during March 8-9, 2017,
- (iv) Attended, participated and presented a research paper entitled **“An M/G/1 queue under varying arrival rates in different server’s status”** in international seminar on **“International Virtual Conference on Prof. CR Rao’s School of Thought in Statistical Sciences”**, organized by Dept. of Statistics, Pondicherry University (A Central University) and Department of Mathematics and Statistics, Mrs. A.V.N. College, Visakhapatnam, during November 21-29, 2020.
- (v) Delivered a talk in the **Computational Mathematics** session entitled as **“An M/G/1 feedback queueing system with repeated service under N-policy and a random setup time”** in the virtual conference on **“64th Annual Meeting of the Australian Mathematical Society (AustMS 2020)”**, during December 8-10, 2020, hosted by University of New England, Australia.

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