

REPORT OF EVERYDAY IS SEMINAR DAY

- **TITLE OF EVENT/ PROGRAMME:** EVERYDAY IS SEMINAR DAY - Seminar Lecture Series by the faculty members
- **THEME OF THE EVENT/ PROGRAMME:** Use of coefficient of variation in stratified random sampling for better allocation
- **ACADEMIC SESSION:** 2022 - 23
- **DATE:** 2nd May, 2023, Tuesday at 1:30 pm
- **VENUE:** Seminar Hall, Asutosh College Centenary Building
- **OBJECTIVE/ PURPOSE:** Coefficient of variation and stratified random sampling, both are two very important topics of our Statistics Honours curriculum. So in this session the speaker has tried to search and establish a connection between these two using different theoretical concepts and numerical examples.
- **SPEAKER/S / RESOURCE PERSON/S:** **Speaker:** Dr. Parthasarathi Bera, Assistant Professor, Department of Statistics.
- **ORGANIZING COMMITTEE:** Asutosh College Academic Sub-Committee in collaboration with IQAC, Asutosh College.
- **TARGET AUDIENCE/ PARTICIPANTS:** Students of Semesters II and IV from Statistics Honours Course.
- **NUMBER OF PARTICIPANTS:** 72
- **ATTENDANCE SHEET:**

"EVERYDAY IS SEMINAR DAY"
 SEMINAR LECTURE SERIES BY THE FACULTY MEMBERS
 Organized by Asutosh College Academic Sub-Committee in collaboration with IQAC, Asutosh College
 Date: March 21, 2023 May 02, 2023 Time: 11:30 PM
 Venue: Seminar Hall, Asutosh College Centenary Building
 Department: Statistics

Speaker: Dr. Parthasarathi Bera, Assistant Professor, Department of Statistics
 Topic: Use of Coefficient of Variation in Stratified Random Sampling for Better Allocation

| Sl. No. | Roll No. | Signature | Sl. No. | Roll No. | Signature |
|---------|----------|------------------------|---------|----------|----------------------|
| 1 | 533 | Sourmyadeep Basak | 40 | 1391 | Soumik Das |
| 2 | 246 | Suman Das | 41 | 926 | Saikat Maity |
| 3 | 639 | Arund Das | 42 | 1583 | Swroya Maity |
| 4 | 139 | Soumabha Bhim | 43 | 0180 | Sukanya Maity |
| 5 | 693 | Debjyoti Mondal | 44 | 1505 | Upasana Majumder |
| 6 | 116 | Ujjal Maity | 45 | 0169 | Atreyee Karjal |
| 7 | 275 | Madhuban Dey | 46 | 0614 | Ashara Mondal |
| 8 | 478 | Rishiraj Sarkar | 47 | 1033 | Sneha Saha |
| 9 | 571 | Ankita Samkar | 48 | 0829 | Madhusree Dhar |
| 10 | 0364 | Sandhanita Jana | 49 | 1005 | Sanjana Sarkar |
| 11 | 0474 | Bidisha Pal | 50 | 0530 | Saptarano Roy |
| 12 | 0065 | Poushali Roy | 51 | 0130 | Arjunan Goswami |
| 13 | 0306 | Shreya Tarafdar | 52 | 0493 | Niladri Roy |
| 14 | 0568 | Submita Barman | 53 | 1067 | Sayantan Roy |
| 15 | 0682 | Soumyajit Banerjee | 54 | 862 | Sudhakar Ghosh |
| 16 | 1035 | Saptatipa Panda | 55 | 752 | Trisambati Mondal |
| 17 | 0981 | Aishik Mukherjee | 56 | 1119 | Shuvam Maity |
| 18 | 0883 | Soham Halder | 57 | 1138 | Ashika Paul |
| 19 | 470 | MD Tarique Anam | 58 | 609 | Soumit Biswas |
| 20 | 1141 | Pouyel Chakraborty | 59 | 858 | Soumik Dash |
| 21 | 1315 | Priya Barman | 60 | 1212 | Shreya Ghosh |
| 22 | 1125 | Parantap Chattopadhyay | 61 | 1177 | Sampriya Dey |
| 23 | 1569 | Paluab Sarkar | 62 | 414 | Jayjit Bhattacharjee |
| 24 | 0365 | Soham Sarkar | 63 | 1573 | Aditya Khan |
| 25 | 0468 | Nisomalya Mondal | 64 | 0803 | Rishabh Kumar |
| 26 | 1253 | Rupankar Das | 65 | 0924 | Shrey Ghosh |
| 27 | 0708 | Sudipta Samanta | 66 | 0793 | Kinjal Singha |
| 28 | 1589 | Rupsha Das | 67 | 0496 | Debjit Roy |
| 29 | 0756 | Samyak Dhar | 68 | 0381 | Bishal Podder |
| 30 | 0745 | Anitra Das | 69 | 0502 | Ananya Paul |
| 31 | 0988 | Souvik Bhattacharya | 70 | 0921 | Anamita Nag |
| 32 | 0295 | Promit Mallick | 71 | 1027 | Sayan Majumder |
| 33 | 1086 | Soumi Das | 72 | 061 | Sangstuti Halder |
| 34 | 142 | Kathakali Sarda | | | |
| 35 | 532 | Amrita Chakraborty | | | |
| 36 | 1561 | Prodeep Basak | | | |
| 37 | 0369 | Debjyoti Chakraborty | | | |
| 38 | 0099 | Shreyasi Kar | | | |
| 39 | 0450 | Tuyaha Majumder | | | |

- **BRIEF REPORT ABOUT THE EVENT/ PROGRAMME:** In stratified random sampling, allocation problem play master role to reduce the standard error. In stratified random sampling the allocation of the sample to different strata is done by i) strata size ii) variability within strata and iii) the cost in taking observation per sampling unit in the strata. Neyman's allocation formula is better than among allocation formula because in Neyman's optimum allocation formula standard error is lesser than others. But in all the cases variability with in stratum is not considered that is homogeneity of each stratum is not considered. It is previously known that Neyman's optimum allocation formula is the best where sample allocation depends on stratum size and independent of variability with in stratum. In this session the speaker

has discussed that allocation of sample size depend on variability with in stratum and reduce standard error than Neyman's optimum formula.

➤ **EXPECTED OUTCOME:** This lecture session was beneficial for both the students and the faculty members. Students could learn something about an important topic which is not included in their regular course but can be thought of as an extension of it and the faculty members could brush up their skills of giving presentations. Hopefully both the parties will be interested to go deeper into the topic in future.

➤ **GEO-TAGGED PHOTOGRAPHS:**

