

Report of the Winter School (2014-15) conducted by Applied Statistics Unit, ISI, Kolkata

The Applied Statistics Unit of ISI, Kolkata, recently organized the Winter School (23 - 27) March 2015, on 'Application of Statistical Methods in Medicine, Public Health and Environment using Computer'. The program was held at the Applied Statistics Unit seminar room (8th floor), S.N.Bose Bhavan.

The organizing team consists of **Ms. Kasturi Basu**, as **Co-ordinator** and **Prof. Tapas Samanta**, as **Chairman**. Other team members are Prof. Mausumi Bose, Prof. Sumitra Purkayastha, Dr. Arnab Chakrabarty, Mrs. Roma Chaudhuri Sahu and Mr. Sukumar Pramanik.

Objective of the five day Winter School was to impart hands on training on application of Statistical Methods for analyzing data in the respective research domain of Public Health, Environment and Bio-Science. The practical application of Statistics using tools of Statistical Software enrich the knowledge and skill of the participants in grasping the Statistical concepts and interpreting the results.

- Topics covered** : Introduction to Statistical Data Analysis. Introduction to SPSS. Probability and Distributions. One Sample & Two Sample Tests. One way & Two way ANOVA. Tests for Variances and Correlations. Contingency Table and Tests for Proportions and Independence. Linear and Multiple Regression. Survival Analysis. Binary Logistic Regression. Longitudinal Studies. Cluster Analysis.

Targeted participants : **Researchers/Professionals**, affiliated to **Govt. Institute/Universities** of India, with **Masters in Medicine/Public Health/Environment** or pursuing **PhD in Biological Science**. Only the Candidates who need to analyze data in their domain using tools of Statistical Software and conversant with **SPSS** were selected.

Participants selected from all over India joined the course. The program was initially planned to accommodate 30 candidates only. Number of application was 150. Realizing the huge demand, no. of candidates to be accommodated was increased from 30 to 36. A few failed to join at the last moment because of Swine Flu/MCI visit/Personal reasons etc.

Number of total participants joined : **32**. **Female : 13**, **Male : 19**.

Distribution of the participants are given in Table 1 & Table 2

Sl. No.	Category	No.
1	Medical Faculties	18
2	Bioscience Faculties	3
3	Environment Sc. Faculty	1
4	Research Fellow (Bio-Sc.)	9
5	Research Officer(Environment)	1
Total		32

Name of the Institute	Department	No. of Participants
Aligarh Muslim University, Aligarh	Botany	1
Bankura Christian College	Physiology	1
Bankura Sammilani Medical College	Community Medicine	1
	Physiology	1
	Pharmacology	1
CNMCH	Anatomy	1
College of Medicine & S. D. Hospital	Community Medicine	3
Govt. Medical College, Bhavnagar	Physiology	1
Govt. Medical College, Nizamabad	Community Medicine	1
IIHMR, Jaipur	Environment	2
JIPMER, Pondicherry	Forensic Medicine	1
Medical College Kolkata	Community Medicine	2
	Anesthesiology	1
N.R.S. Medical College	Community Medicine	2
Pt.Ravishankar Shukla University, Raipur	Biotechnology	1
	Life Science	1
S.V.Medical College, Tirupati	Community Medicine	3
Sambalpur University	School of Life Science	2
Univ. of Kashmir, Sri Nagar	Botany	2
University of Allahabad	Biochemistry	1
University of Calcutta	Botany	1
WBUAFS, Kolkata	Veterinary Pharmacology Toxicology	1
West Bengal State University, Barasat	Microbiology	1
Total		32

Introduction to inaugural programme was addressed by the Co-ordinator Ms. Kasturi Basu, on 23.03.15 at ASU Seminar room at 10.30 am. Inaugural speech was delivered by Director Prof. Bimal Kumar Roy. Dean of Studies, Prof. Pradiptya Bandyopadhyay vividly explained the Academic function of ISI. Prof. In-Charge of Applied Statistics Division (ASD), Prof. Anup Dewanji described the function of ASD. Prof. Tapas Samanta, Head ASU delivered the Welcome Address on behalf of ASU. Inaugural program was concluded with Self introduction by the participants.

Prof. Bimal Kumar Roy delivered a Special Lecture on 23.03.15. Prof. Sibdas Bandyopadhyay, Visiting Scientist of SOSU and Prof. Probal Chaudhuri of Stat Math Unit were invited to deliver lectures in the course. Prof. Ashis Sengupta, Prof. Anup Dewanji, Prof. Tapas Samanta, Prof. Debasis Sengupta, Prof. Sumitra Purakayastha, Prof. Anup Dewanji, Prof. Atanu Biswas, Dr. Arijit Chakrabarti, Dr. Arnab Chakrabarty, Mrs. Roma Chaudhuri Sahu, Ms. Kasturi Basu, all of ASU, taught in this course as resource persons.

Selected topics in the course were explained theoretically by the concerned resource persons. Practical illustrations with interactive session using computer & tools of Statistical Software, were demonstrated by Statistical Trainees/Project-Linked-personnel of ASU.

Mr. Amit Paria together with Ms. Kasturi Basu nicely organized the city tour on the evening of 25.03.15

On the last day of the course, Participants were evaluated by group wise as well as by individual presentation of the Statistical Model, using data of the respective research domain on the basis of what they learned in this course. Most of the groups performed well. Evaluation was done by ASU Faculty members, viz., Prof. Debapriya Sengupta, Prof. Sumitra Purkayastha and Dr. Arnab Chakrabarty

Director, Prof. Bimal Kumar Roy, distributed the Attendance Certificates to the Participants in the Valedictory session on 27.03.15 in the presence of Prof. Tapas Samanta, Head ASU and Co-ordinator Ms. Kasturi Basu. Prof. Tapas Samanta delivered the Valedictory Address.

On behalf of the Participants Prof. S. K. Bhattacharya, Head, Community Medicine, Kolkata Medical College, thanked the ASU team for nicely conducting such a course.

Ms. Kasturi Basu, concluded the valedictory program after delivering a Vote of Thanks.

Some Photographs of Inaugural session on 23.03.15 :



Ms. Kasturi Basu is introducing inaugural program



Prof. Bimal K. Roy is delivering Inaugural Address



Prof. P. Bandyopadhyay is briefing academic function of ISI



Prof. Anup Dewanji is describing function of ASD



Prof. Tapas Samanta is delivering Welcome Address



Participants in the Seminar room during inaugural program

Some Photographs of Valedictory session on 27.03.15 :



Participants in the class on the valedictory day



Participants during the valedictory session



Director is on the podium to deliver certificates

Some Photographs of Presentation of Certificates to Participants :



Dr.Nivedita Das, College of Medicine & S.D.Hospital



Dr. M.H.Biharilal, Govt.Medical College,Bhavnagar



Dr. Y,Bhavani, S.V.Medical College, Tirupati



Dr.A.P.Patra, JIPMER , Pondichery



Mr.M.F.Haq, University of Kashmi,,Sri Nagar



Prof. S.K.Bhattacharya, Medical College,Kolkata