



SCHOOL OF PUBLIC HEALTH  
KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT) DEEMED TO BE  
UNIVERSITY  
BHUBANESWAR, ODISHA

## Training Workshop on Statistical Data Analysis Using R Software, 17 – 19 Nov, 2017

### SUMMARY REPORT



Dr. Sudhir Kumar Satpathy, Director KSPH giving the welcome address. On the Dias (left to right) Prof. (Dr) S.B. Ogale, Director, KIMS, Prof. (Dr) Hrushikesha Mohanty, Hon. Vice Chancellor and Mr. P. Parida, Management Representative, KIMS, KIIT Deemed to be Universities respectively graced the occasion and addressed the participants.

## Summary Report

### Training Workshop on Statistical Data Analysis Using 'R' Software

A three day training workshop on Statistical Data Analysis Using R Software was conducted by KIIT School of Public Health (KSPH), Kalinga Institute of Industrial Technology (KIIT) Deemed to be University, Bhubaneswar during November 17<sup>th</sup> -19<sup>th</sup> , 2017. The venue was Seminar Hall-4, Campus- 6, convention Centre, KIIT Deemed to be University, Bhubaneswar.

The target group of this workshop included medical and non-medical PG students, faculty & researchers who are actively engaged in dissertation/thesis/project work and data analysis. The total number of participants was 46, out of that 39 participants from different Schools at KIIT Deemed to be University and 7 were from other reputed organization such as AIIMS Bhubaneswar, Phfi, & IIPH Bhubaneswar, etc. Candidates from West Bengal, Jharkhand & Odisha State have participated.

The motive of the three days workshop was to build the skill of the participants in statistical methods of data analysis using R Software through interactive sessions and hands on training. Care was taken to make the participants aware of field application of data analysis in health research.

The inauguration ceremony commenced with a welcome note by Prof. (Dr) Sudhir Kumar Satpathy, Director, School of Public Health, KIIT Deemed to be university. Prof. (Dr) Hrushiksha Mohanty, Vice Chancellor, KIIT deemed to be University graced the occasion as chief guest. Among others, Prof. (Dr).S.B. Ogale, Director, KIMS and Mr. P. Parida, Management Representative, KIMS, KIIT Deemed to be Universities respectively were present and spoke on the occasion.



*Figure 1 Distinguished Guests Lighting the Lamp at the R Training Workshop*

Dr. Ambarish Dutta, MBBS, MPH (Leeds University, UK), PhD (Biostatistics – PCMD, UK)

delivered the lectures during the sessions.



*Figure 2 Interactive Sessions by Dr. Ambarish Dutta, Faculty of the training Workshop*



*Figure 3 Hands on training at the Workshop by Dr. Ambarish Dutta, Dr. Pratap Kumar Jena, & Ms Kavitha AK, faculty of the training workshop*

### **Following topics were covered during the training workshop**

- Data Entry and Management: Database creation, Data entry, Data management, Transformation and importing of external databases
- Descriptive statistics / Summarization of different types of data: Measure of central tendency & dispersion, Reporting frequencies
- Graphical representation of data
- Hypothesis testing: Parametric & non-parametric tests, Multivariate analysis
- Hands on training in R Statistical software

The concluding session of this training workshop was scheduled on 19<sup>th</sup> November at 5.00 PM in the Conference Hall No - 4, Convention centre, Campus - 6, KIIT Deemed to be University, Bhubaneswar. The chief guest of this concluding session was Dr. Sangamitra Pati, Director, Regional Medical Research Centre, Bhubaneswar. The participation certificate and achievers award were distributed by Dr. Sangamitra Pati and Prof. (Dr). Sudhir Kumar Satpathy.



*Figure 4: Concluding Session and Certificate of Merit Distribution by Dr. Sanghamitra Pati, Director, RMR(ICMR), Bhubaneswar & Dr. S K Satpathy, Director, KSPH, KIIT Deemed to be University*

The workshop ended with feedback from the participants who lauded the efforts put in by the institute in organizing such a useful, beneficial and informative workshop.



*Figure 5 Group Photo of Participants and Faculty of the Workshop*