

**PATRON:**

Dr. Rajiv Bahl

Secretary to Govt. of India &  
Director General ICMR**CONVENERS:**

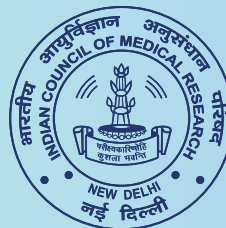
Dr. Santasabuj Das

Director in Charge, ICMR-NIOH



Dr. H K Chaturvedi

Director in Charge ICMR-NIMS

**Course Director:**Dr. SukhDev Mishra  
Sci. "D" ICMR-NIOH**Course Co-Director:**Dr. Immad A Shah  
Sci."C" ICMR-NIOH**6TH NATIONAL WORKSHOP ON  
STATISTICAL METHODS IN BIOMEDICAL RESEARCH****01-03 November 2023****( In Collaboration with National Institute of Medical Statistics, New Delhi )**

ICMR-NIOH is organizing three days workshop for biomedical researchers on statistical applications using SPSS/R. This course is intended to introduce principles of Biostatistics to researchers in area of medical and life sciences. Emphasis of course is to illustrate applications of statistical methods for experimental data using SPSS/R software. At the end, participants would be able to apply appropriate statistical procedures for the analysis of data and its interpretation.

**SEATS AND LAST DATE:** Number of seats is limited to 30 only and will be offered purely on First come, First serve basis. Last date for receipt of filled application is 20th Oct 2023.

**WHO CAN APPLY:** Researchers/Students in area of health research, life sciences, medicine etc.

**COURSE FEE & PAYMENT:** Course fee for the workshop is **Rs. 5000**. Payment can be made by online NEFT Transfer or Demand Draft in favor of "**Director NIOH**" ICMR-National Institute of Occupational Health, Ahmedabad, 380016, payable at Ahmedabad. NEFT: A/C No. **10106975123**, State Bank of India, Account Type: **Current**, IFSC Code: **SBIN0003043**, MICR Code: **380002011**, Branch: Civil Hospital, Ahmedabad

**NOTE:** Registration cancellation will not be possible after confirmation; hence no course fee will be refunded. Applicants are advised to bring their own laptops for hands-on-training purpose

## • COURSE CONTENT:



STATISTICS



Day 1

- Overview of Statistical Applications in Biomedical Research
- Study Design : Observational and Experimental/Clinical Studies
- Selection Bias, Randomization & Replication
- Descriptive Statistics and Graphical representation of Data
- Database Designing and Management in DBMS/Excel
- Hands-on training Using SPSS / R

Day 2

- Probability distribution & Determination of Sample Size
- Hypothesis Testing, Statistical test and Confidence Interval
- Design of Experiments/ Analysis of variance (ANOVA)
- Analysis of Categorical Data
- Hands-on training Using SPSS / R

Day 3

- Correlation and Regression Analysis
- Non-Parametric Tests
- Ethical Issues in Biomedical Research(Data/Statistical Perspectives) Hands-on training Using SPSS / R
- Open Discussion Session

**ACCOMODATION:** Participants will have to bear their own expenses for travel, boarding and lodging. The Organizers will provide Course kit, working Lunch and Snacks. However, on request, organizers may arrange sharing basis accommodation with AC facility on standard nominal charges in the International Training Center of NIOH. Only limited accommodation available in the campus and priority will be given to the female participants.

**HOW TO APPLY:** Applicants need to submit Online 'Registration Form', which can be accessed by clicking [here](#) or scanning the QR code given at bottom left corner. Availability of seats can be confirmed by email (niohstats@gmail.com).

**CONTACT PERSON:**

Mr. Ashvin Malhotra for  
course related info.  
Mobile No.: 8460501808  
/ (079)-22688844



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