

**DIVISION OF EPIDEMIOLOGY AND BIOSTATISTICS**  
**(CENTRAL COMPUTATION)**

INSTITUTE OF CYTOLOGY AND PREVENTIVE ONCOLOGY  
ICMR, Department of Health Research (MOHFW)  
I-7, Sector-39, Near Noida City Centre Metro Station, NOIDA (UP) – 201301

*Course title:* **APPLICATION OF STATISTICAL SOFTWARES IN MEDICAL RESEARCH**

**COURSE CONTENTS:**

- Data collection tools, types of data, Type of studies
- Introduction to commonly used statistical software
- Database creation, Data Manipulation/ Transformation and importing external databases
- Descriptive statistics: calculating mean, standard deviation, reporting frequencies, Graphical representation of medical data.
- Testing Hypothesis: **Parametric tests:** (independent t test, paired t test, ANOVA etc.) and **Non-Parametric tests:** (Mann Whitney U test, Wilcoxon signed ranked test)
- Correlation and Overview of regression models -Linear, Multiple, binary and multinomial logistic regressions
- Epidemiological tests (Sensitivity, Specificity, ROC, Incidence, Prevalence, ratio, proportions, rates etc.)
- Agreement analysis, Sample size determination
- **Hands on training on all topics in various Statistical Softwares (SPSS, Epi-info,etc.)**

**Course Fee: Rs. 2000/-**

**Duration: 3 days (6<sup>th</sup> to 8<sup>th</sup> August, 2013).**

**Venue: ICPO (ICMR), NOIDA**

Enrollment may be made by paying the course fee through demand draft / pay order in favour of Director, ICPO, NOIDA payable at Noida or Delhi before 30<sup>th</sup> July, 2013. The number of participants for the course is limited to 30 and enrollment is purely on first come first served basis. Participants will be served lunch and tea.

Send the requests along with DD/PO and brief half page bio-data (specifying email address and mobile contact number) for enrollment addressing course co-coordinator or Director:

**Dr. Shashi Sharma**  
Course Co-ordinator and Scientist E  
Central Computation  
Division of Epidemiology and Biostatistics

**Dr. Ravi Mehrotra**  
Director  
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