

**FACULTY DEVELOPMENT CENTRE
(Human Resource Development Centre, UGC)
Guru Nanak Dev University, Amritsar**

**Organizing a National Workshop
ON
“*Research Methodology in Life Sciences*”**

January 4-10, 2019

Introduction: The Research Methodology Workshops are designed to impart basic skills in research methods and biostatistics. These skills will be needed to design and conduct good quality research in any discipline. This workshop will expose the participant to methods of data collection, epidemiological methods, statistical analysis of data and Bioinformatics tools being popularly used in life sciences. In the era of interdisciplinary research, this workshop will be also beneficial for the researchers working in the allied scientific fields including food sciences, chemistry, physics, which can help the collaborators to design and execute their work in a better way. Obviously, this workshop will not make one an expert on research methods or statistics but hopefully it may provide sufficient impetus to get the participants started.

Objectives:

The workshop will cover the following:

- Basic principles of scientific methods
- Types of studies, study design, sample size calculation, data summarization, data collection.
- Descriptive statistics, Concept of p-values, confidence intervals, principles of statistical tests, tests on compare means & proportions, correlation, outliers, concepts of linear/logistic regression, measures of disease frequency, relative risks & odds ratios, *etc.*
- Introduction to statistical facilities, Hands on training in Statistical packages
- Ethics in biological research
- Bioinformatic tools in life sciences

The lecture sessions will be supplemented with the practical demonstrations as well as the problem solving sessions. The participants are requested to bring their own laptops, alongwith battery backup, for better exposure to practical training.

There is no registration fee for this course. Travelling allowance (IIIrd A.C. by train or A.C. Deluxe Bus on production of ticket) will be reimbursed to the teaching faculty as per UGC guidelines.

For online submission of Application form/fee & further details, please visit our website: www.hrdcgndu.org. For any registration related queries contact at **0183-2258802-09 Ext. 3178 (9am-5pm, Mon-Fri)**

**Prof. (Dr.) Jatinder Singh
(Coordinator)
96461-58007 (M)**

**Dr. Adarsh Pal Vig
Director, HRDC
9417062796 (M)**

**Dr. Manpreet Kaur
(Deputy- Coordinator) 9888475886 (M)**
