

### HOW TO APPLY?

Registration form can be downloaded from the website. The filled in registration form along with the demand draft/Cash towards registration fee should reach the Coordinator on or before **06-02-2015**.

### SELECTION

Selection will be on first-come-first-served basis and will be intimated through e-mail. Number of participants is limited to 30. Next Training workshop would be organized in near future and exceeding candidates will be called in next training workshop.

### COORDINATOR

Syed Habib Akhter Jaffri  
Senior Librarian  
PASTIC National Science Reference Library  
Quaid-i-Azam University Campus  
Islamabad  
Phone: +92-51-9248107  
Fax: +92-51-9248113  
Cell: 0345-5515875  
E-mail: sl@pastic.gov.pk,  
habibjaffri@gmail.com

### ABOUT PASTIC

(<http://www.pastic.gov.pk>)

Pakistan Scientific & Technological Information Centre (PASTIC) is the premier organization for dissemination of Scientific and Technological Information to the Scientists, Researchers, Engineers, Entrepreneurs, Industry and Citizens of Pakistan.

Human Resource Development is one of the core activities of PASTIC. In this regard PASTIC organized many workshops in the field of scientific information collection, identification of scientific data resources and managing & dissemination of S & T information.

PASTIC National Center is located in Quaid-i-Azam University Campus in Islamabad. It has six Sub Centers throughout Pakistan including Karachi, Lahore, Peshawar, Quetta, Faisalabad and Muzaffarabad.

### SERVICES OF PASTIC

- Abstracting and Indexing
- Bibliographic Information
- Document Supply Service
- International liaison
- National Science Reference Library
- Patent Information
- Reprographic Service
- Technology Information Service

### INTERNATIONAL DATABASE SUBSCRIPTIONS

- Wilson Applied Science & Technology Full Text
- Wilson Social Sciences Full Text
- Wilson Biological & Agricultural Index Plus



## Training Workshop

# TRAINING WORKSHOP ON RESEARCH TOOLS & TECHNIQUES (SPSS, EndNot and Research Methodology,)

**February 18-20, 2015  
(08:30 am to 03:30 pm)**

**Organized by:  
Pakistan Scientific & Technological  
Information Centre, Islamabad  
Pakistan Science Foundation, Islamabad**

## INTRODUCTION

This workshop on research tools & techniques is primarily targeted to Research Scholars either doing or planning research in the areas of science, engineering and social sciences. The orientation of the workshop is towards applied, computational and field database research. This workshop will also be helpful for the institutions offering courses in research methodology.

## OBJECTIVE

The key objective of the program is to enable the participants to define a research problem and develop a suitable methodology for addressing the research problem. The participants will also learn about the use of various data analysis methods in research using relevant software's. The topics include design the study, collect data for research, analyze and report research data.

## EXPECTED OUTCOMES

Research in the field of science, engineering and social sciences follows certain processes such as formation of the topic, research design, hypothesis formulation, data collection, data analysis, testing and revision of hypothesis. The outcomes of this workshop are to produce:

- Well motivated research scholars to pursue research
- Individual skills and knowledge in scientific research tools
- Adequate expertise in preparing research papers and research proposals

## CONTENTS OF THE WORKSHOP

- Preparation of Research
- Introduction to SPSS (Create variables, data entry)
- Data Transformation (Recoding variable, Transform data)
- Descriptive statistics (Compute mean, median, standard deviation, frequency (%), (Cross-tabulation)
- One sample t-test, paired sample t-test & independent sample t-test
- One Way ANOVA
- One Way ANVOCA
- Correlation (Pearson and Spearman Rank Correlation)
- Partial Correlation
- Simple Linear Regression
- Introduction and hands on training on EndNote

## RESOURCE PERSONS

- Mr. Muhammad Usman,  
Web Manager
- Syed Habib Akhter Jaffri  
Senior Librarian  
PASTIC National Science Reference Library

## ELIGIBILITY

This is an interdisciplinary programme. Faculty Members, Research Scholars (M. Phil & Ph.D Programme) from Universities, persons from industries and research organizations are eligible to participate in the Training Workshop.

## REGISTRATION FEE

Registration Fee for students Rs. 2,000/-  
Registration Fee for faculty/employees of S&T and R&D Organizations Rs. 2,500/-  
Registration fee includes Workshop kit and Refreshments. The registration fee can be paid by a Demand Draft drawn in favor of PASTIC Islamabad.

Training Workshop  
RESEARCH TOOLS & TECHNIQUES  
February 18-20, 2015  
(08:30 am to 03:30 pm)

PASTIC National Science Reference Library  
Quaid-i-Azam University Campus, Islamabad

1. Name: .....

2. a) Date of birth: ..... b) Sex: M/F ....

3. Designation: .....

4. Institution: .....

5. Address for communication  
.....  
.....

CNIC #:.....

Phone: ..... Mobile: .....

Email: .....

6. Qualifications: .....

7. Specialization: .....

8. Year of award of the highest qualification: ...

9. Payment mode: Demand Draft (DD)/Cash ...

If D.D, please furnish the details:

D.D. Number: ..... Date:.....

Name of Bank .....

Place:

## DECLARATION

The information furnished above is true to the best of my knowledge. I agree to abide by the rules and regulations governing the workshop.

Date:

Signature of the Applicant